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The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3036
VOL. CXXVIII

APRIL 16, 1938

Annual Subscription (with
Diary) 20/- Single Copies 9d.



*The Soap with a Name
a Personality
and a Consistent Sale*

A P PEROXIDE



4 FLUID OUNCES
**PARKE-DAVIS
HYDROGEN
PEROXIDE**

4 FLUID OUNCES
**PARKE-DAVIS
HYDROGEN
PEROXIDE**

4 FLUID OUNCES
**PARKE-DAVIS
HYDROGEN
PEROXIDE**

Contains 1% Hydrogen Peroxide by weight corresponding to about 10 volumes of available oxygen.

This solution is guaranteed to meet all requirements of the British Pharmacopoeia when it leaves our laboratory. Ordinary preparations of hydrogen peroxide may deteriorate with age, particularly if exposed to sunlight and light. The Parke-Davis preparation retains its strength exceptionally well, even under adverse conditions.

NON-POISONOUS & HARMLESS

For details of uses see other part of this notice, and also the label on the bottle.

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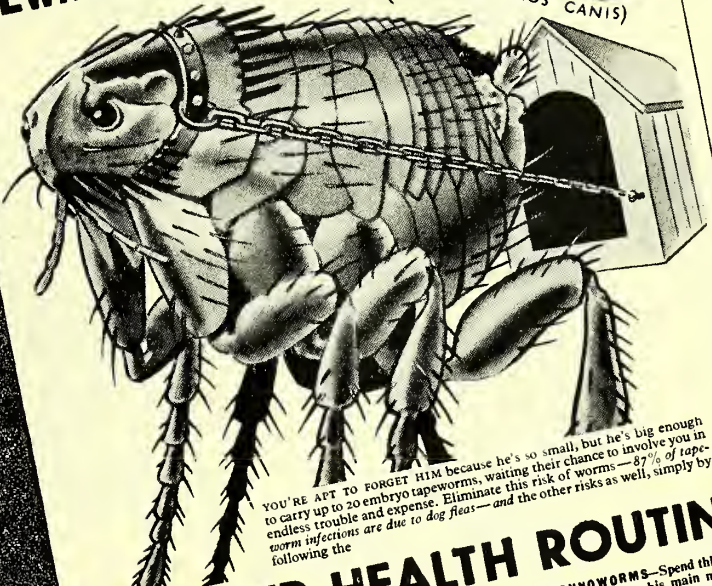


STABILITY

SEND FOR TERMS

PARKE, DAVIS & CO., 50, BEAK ST., LONDON W.1.

BEWARE OF THE DOG-flea
(CTENOCEPHALUS CANIS)



YOU'RE APT TO FORGET HIM because he's so small, but he's big enough to carry up to 20 embryo tapeworms, waiting their chance to involve you in endless trouble and expense. Eliminate this risk of worms—87% of tapeworm infections are due to dog fleas—and the other risks as well, simply by following the

COOPER HEALTH ROUTINE

1 TO PREVENT TAPEWORMS—Spend five minutes once a week dusting your dog's coat with Pulvex, to keep him free from fleas and all flea-borne parasites. A 6d. tin lasts several months.

2 TO PREVENT ROUNDWORMS—Spend thirty seconds once a day sprinkling his main meal with Cooper's Vitamin Ration, to give him vital elements he won't get any other way. A 1/6 tin lasts two months.

IF YOUR DOG HAS WORMS NOW, Cooper's Liquid Worm Remedy will rid him of the lot, tapeworms and roundworms, with a little distress and danger as may be. Then the Cooper Health Routine, faithfully followed, will prevent the need for repeated worming.

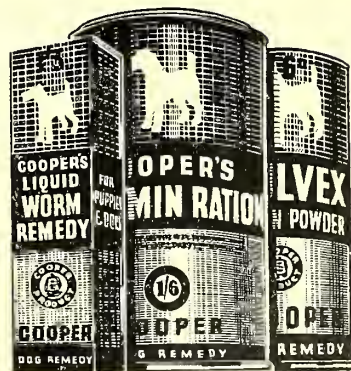
* This simple routine was devised and perfected by Cooper's own Research Bureau, which carries on the only research work done on these lines in this country. For any further information that will help you, please write as fully as you can to the Dog Remedies Department.

PULVEX VERMIN POWDER | **COOPER'S VITAMIN RATION** | **COOPER'S LIQUID WORM REMEDY**
6d and 1/3 sprinkler tins | 1/6, 2/9, and 4/6 | Small dogs 1/3, larger dogs 2/6 bottles

FROM ALL CHEMISTS AND DOG SHOPS

COOPER, McDOUGALL & ROBERTSON LIMITED, BERKHAMSTED, HERTS

THE FEAR OF FLEAS will be put into everyone that sees this advertisement, reprinted now in miniature from the 'Tailwagger' etc. Are you prepared to cash in on it? There's a lot of money to be made on dogs. We know vet. counters in quite small shops turning over a steady £5 per week. Have you got one? You can't make a better start than with the Cooper Health Routine, nor find a better mainstay. Three sales in one and nine times the profit in the year.



PULVEX VERMIN POWDER

6d and 1/3 sprinkler tins

COOPER'S VITAMIN RATION

1/6, 2/9, and 4/6

COOPER'S LIQUID WORM REMEDY

Small dogs 1/3, larger dogs 2/6 bottles

TRADE TERMS—less 33 1/3% and less 5% cash monthly

COOPER, McDOUGALL & ROBERTSON LIMITED, BERKHAMSTED, HERTS

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NEWSPAPERS
AND
MAGAZINES
 ★
YIELDS
36 %
PROFIT
ON
BEST TERMS

Phone:
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IT'S WELL WORTH WHILE TO SHOW THIS LINE!

"Don't put all your goods in the shop window," runs a modern adage. Yet nowadays, the quality of a business is so often judged by the window display. Products the public know from national advertising, to be in daily use by the medical profession, breed confidence in the pharmacy — and in the pharmacist. And it is even more worth while to show such products, when a display may bring an extra 2/6d., 4/- and even 10/- on every dozen sold — and when national advertising keeps stock constantly turning over. Write for best window display terms.

MACLEANS LTD., GREAT WEST ROAD, BRENTFORD, MIDDLEX.

SULPHANILAMIDE CROOKES'

(COLSULANYDE)

Price Reductions

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Telephone: Willesden 6313 (5 lines)

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EXTRACTS of**

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SARSAPARILLA
GINGER**

WILLIAM RANSOM & SON

ESTABLISHED 1846

Ltd.

Manufacturing Chemists

HITCHIN *near* **LONDON**

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is the huge sale of

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THE FAMOUS ANTI-RHEUMATIC CAPSULES

Share in this regular and profitable output

Used or recommended by over 6,000 doctors—sales of 'Curicones' are still rising!

Retail prices: One bottle 5/-, three bottle package 14/-, six bottle package 24/-.

Write to-day for display materials and all details of this nationally advertised product

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STEPHEN MATTHEWS & CO., LTD.
MANUFACTURING CHEMISTS, 19-21, FARRINGDON ST., LONDON, E.C. 4

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LIVERPOOL

LABORATORIES:
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DRUGS, GALENICALS, PILLS, TABLETS and CHEMICALS

also "CHEMISTS FRIENDS LINES"

Durkee's Asthma Cure

" Ointment

" Pills

Jaytee's Antiseptic Healing Ointment

" Chlorophyll Co. Tablets

" Conf. Senna

" Cream of Magnesia

" Huile d'Olive

• **Water Glass at competitive prices**
Ask for prices

Jaytee's Improved Lysol

" Liver Extract

" Liquid Glucose

" Syrup of Hypophosphites Compound
(Neutral Cloudy)

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and Tablets

" Poulticine" (Reg.)

Sands Green Herbal Ointment

Sands Liver Seeds

• All packed in attractive style

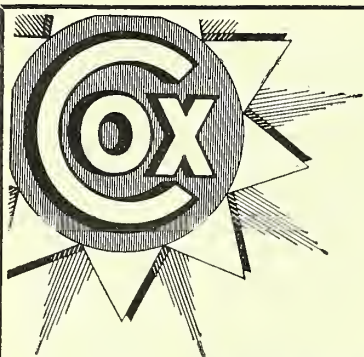


..the name behind them
keeps them
in front

Thirty years of world-wide progress is a proud record! These four famous home remedies, with the confident name and sound policy of VENO behind them, have never looked back. Consistently and heavily advertised, enjoying a good-will second to none, they are lines which every go-ahead pharmacist should stock and display prominently. No waste! The Veno products are always moving quickly. Don't be caught out of stock!

- **VENOS** COUGH CURE
BRAND
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BRAND
- **GERMOLENE** OINTMENT
BRAND
- **PHENSIC** BRAND

VENO DRUG CO. LTD.
CHESTER ROAD · MANCHESTER · 16



The house that specialises in
PILLS and TABLETS
offers—

SULPHUR

TABLETS

Particularly palatable
being made from FRESH
FRUIT essence.

RASPBERRY, ORANGE
or LIME FLAVOURS

A well-known article in
improved form is always
certain of a ready sale.



Striking New show-material and

(1) Cellophane rolls of 20,
12/- gross. Retail, 2d.

(2) Coloured Cellophane bags,
3/6 doz. Retail, 6d.

Showjar **FREE** for orders of 14 lbs. and over

Packed as **YOUR OWN** Brand for orders of 14 lbs. and over



attractive forms of packing

(3) In Bulk (2 oz. cartons
supplied **FREE**).

7 lbs. @ 1/2. 28 lbs. @ 1/-

14 lbs. @ 1/1. 56 lbs. @ 11d.

112 lbs. @ 10d.

ARTHUR H. COX & CO. LTD. BRIGHTON

PROVED - and IMPROVED



Only one safety razor has really made shaving a pleasure. That's the automatic-electric TELERAZOR. Hitherto the demand has far outstripped the supply. And now the Telerazor is greatly improved in efficiency, fine finish and mechanical reliability. The NEW Telerazor is the perfected outcome of more than two years' experience of making the only satisfactory self-contained electric safety razor selling at a popular price.

The Telerazor does not have to be plugged into the electric mains. Operated by a tiny battery in the handle. It is convenient and perfectly SAFE. Every Telerazor sold sells another.

21/-
RETAIL

Refill Battery
lasts 2 Months
Retail, 2d.

Patents granted in all leading countries.

BRITISH PATENTS:
444,592 442,871
429,964 450,687
451,870

The NEW Automatic-Electric TELERAZOR

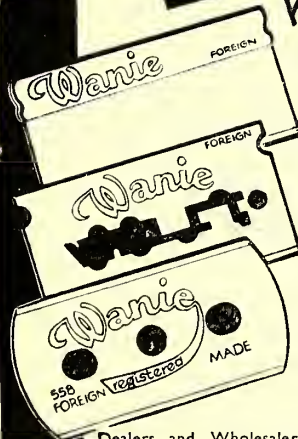
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WANIE BLADES

KEEN EDGES
KEEN PRICES



The market is already
made for all who stock
the Wanie Blades.

THREE HOLE TYPE
8/- gross. Retail 12 for 1/8
AUTO TYPE
9/- 100. Retail 10 for 1/8
EVER-READY TYPE
9/- 100. Retail 10 for 1/8
33 1/3% IS YOUR PROFIT

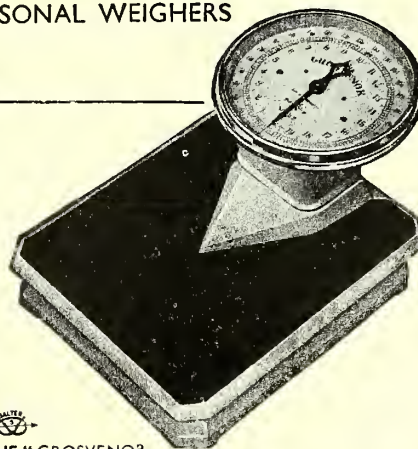
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FREE TO ALL STOCKISTS

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should write for FREE
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LONDON & PROVINCIAL FACTORS LIMITED
146, THEOBALDS ROAD, LONDON, W.C.1.
and at 16 Withy Grove, Manchester.

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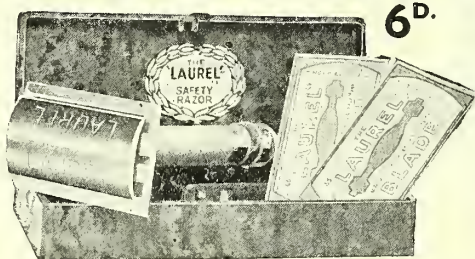


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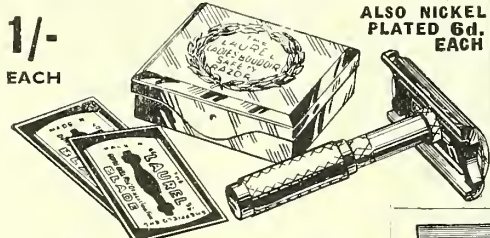
SELL with confidence a machine made in
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There are several models and helpful
window displays. Send for further details.

GEO. SALTER & CO. LTD.
DEPT. (CI), WEST BROMWICH

SHAVE WITH A "LAUREL"



"LAUREL" DUMB BELL RAZOR



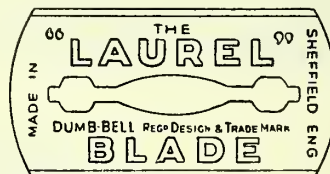
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GOLD-PLATED BOUDOIR
SAFETY RAZOR
COMPLETE WITH TWO BLADES AS
ILLUSTRATED

ALSO NICKEL
PLATED 6d.
EACH

6D. "LAUREL" PENNY BLADES—ALL TYPES
MADE IN SHEFFIELD, ENGLAND

PENNY
BLADES
FOR YOUR RAZOR

PACKET OF SIX
BLADES FOR
6d.



FITS ALL 3 PEG HOLDERS



GEO. H. LAWRENCE LTD. LAUREL WORKS SHEFFIELD, 25574



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6,000,000 Women read Adelaide Grey's
LALEEK Advertisements every month

STOCK AND DISPLAY THESE TWO STAR LINES—

★ LALEEK
★ LONGLASH

★ LALEEK
★ WAX-A-WAY

Obtainable through your Wholesaler, or direct from
ADELAIDE GREY LTD., 27 OLD BOND STREET, W.1

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(Established 1908)

An Illustrated Monthly Review of the
Perfumery and Allied Industries

The regular publication (in English and Spanish as well as in French)
of technical and practical articles on Essential Oils and Synthetic
Perfumery Products is a feature of this popular Trade Journal.

Specimen copy and all particulars from

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THE STARS FORETELL FOR APRIL 30TH....

YOUR LAST DAY
FOR THE HALEX
BONUS OFFER.
SEND YOUR ORDER
NOW!

Two HALEX free with every dozen
gives 75% profit

This is the time for buying Halex, increasing your profits and turnovers. But remember—April 30th is the last day you can get 14 Halex toothbrushes for the price of 12.

The only conditions are—order at least 3 dozen Halex before April 30, in level half-dozen of any kind, and display the Halex showstand for a fortnight. The showstand will help your sales—and remember there's 75% profit for you on each Halex toothbrush. But remember—the offer closes on APRIL 30th.

Bigger campaign helps your Halex sales PRESS

The Daily Mirror and Daily Sketch have been added to the newspapers carrying Halex advertisements.

MAGAZINES

Radio Times, Everywoman's, Passing Show—a long list of the magazines people read more than once are used by Halex.

RADIO

Popular comedian Joe Murgatroyd now puts Halex on the air twice a week from Radio Normandie.

Order from your usual wholesaler, or from The British Xylonite Company Limited, Hale End, E.4

HALEX MADE IN ENGLAND
Regd. Trade Mark

MORE & MORE FAMILIES ARE FINDING IT'S

*Quicker to
shampoo
by tube!*

BRYLFOAM

THE *Family* SHAMPOO

● Are you getting your full share of this new and lucrative business? There's a big profit to be made—37½%—on every tube of BRYLFOAM you sell. And one retailer disposed of actually no less than five dozen tubes in four days. Send for attractive show material. Link up with the current National advertising—and keep BRYLFOAM well displayed. Remember, only chemists and hairdressers sell BRYLFOAM.

37½% PROFIT ON EVERY TUBE!

Not sold by
Chain Stores
or Grocers



PLEASE POST THIS COUPON

To: The County Perfumery Co.,
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Please ask traveller to call,

NAME

ADDRESS

Dr. Page-Barker's Scurf & Dandruff Lotion

The recognised specific for
SCURF and DANDRUFF

Now made in
TWO SIZES

STANDARD 18/- doz. Retail 2/6
FAMILY SIZE 24/- doz. „ 3/6

P.A.T.A.

Three bottles free with every 3 dozen
Smart showmatter with all orders

A MONEY-BACK GUARANTEE WITH
EVERY BOTTLE

Sells on its reputation to those who know,
and on its guarantee to those who don't

THOS. CHRISTY & CO., LTD.
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ANNOUNCING —

A NEW INEXPENSIVE

'DAWN'
FACE CLOTH

IN
ASSORTED
COLOURS



Each carton contains
2 doz. and is fitted
with a cellophane lid
to ensure protection
of contents during
display.

Obtainable from
your usual
wholesaler.

Jacques Fabrics Ltd

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'AIRFLOW'
FLASK**

An Ideal Pack for
Every Purpose



- So convenient
- Cannot spill
- Simple to use
- Profitable to sell

This Ingenious new container,
recently introduced by Press
and Radio advertising, makes
Calvert's Tooth Powder,
always the finest cleaner, now
the most convenient to use.

Retail 1/- each.
List Price: 8/- per doz.
Your usual Wholesaler
stocks it.

F. C. CALVERT & Co. Ltd. - Manchester, 11

The Very Finest Coloured Face Cloth Retailing at 6d. !

The New No. "G.218c"



Watersprite FACE CLOTHS

New available to retail at

6^d. EACH

ASSORTED SIX DELICATE COLOURS EACH CELLOPHANED,
IN BRIGHT DISPLAY CARTONS OF ONE DOZEN

PRICE

4/-

DOZEN

HAVE A TRIAL LOT FROM YOUR WHOLEALER

The New "G.218c" "Watersprite" Non-Stretch Face Cloths must not be confused with similar lines of inferior quality. "Watersprites" are made from a fine material of regular weave, and not from waste yarn. They last longer, wash better and keep perfect in shape and colour. The special non-stretch cloth avoids all tendency to sliminess, and has a delightfully soft frictional cleansing action in use.

Manufactured by

SOLPORT BROTHERS LIMITED, 184-192 GOSWELL ROAD, LONDON, E.C.1. Clerkenwell 2472 (3 lines)

**COCOANUT OIL SOFT SOAP
SEED OIL SOFT SOAP
LIQUID SHAMPOOS
LIQUID TOILET SOAP BASES**

W. M. DELF & CO.

Soap & Disinfectant Manufacturers

DELCO WORKS, RICE LANE, LIVERPOOL

Telegrams: "Glycerine, Liverpool."

**TAPERED, PYRAMID, DOMED AND
FLANGE CORKS
COMPOSITION AND BAKELITE
STOPPERS**

THE MOST COMPETITIVE MANUFACTURERS IN
THIS COUNTRY

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AVOCADO PEAR OIL

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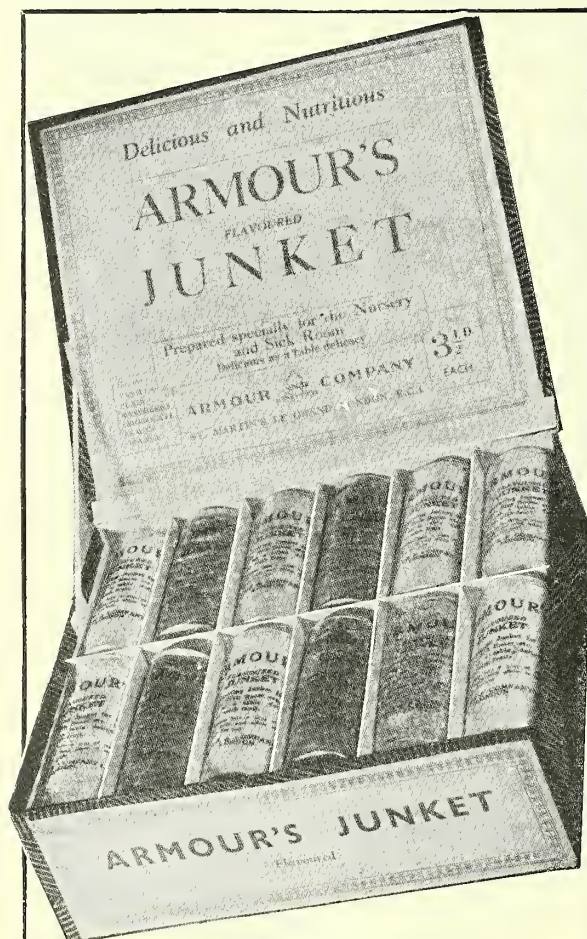
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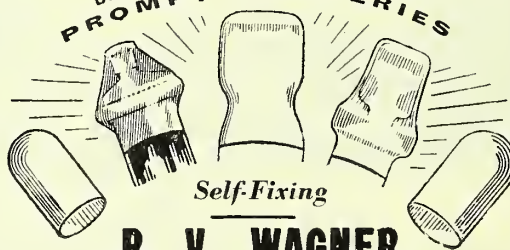
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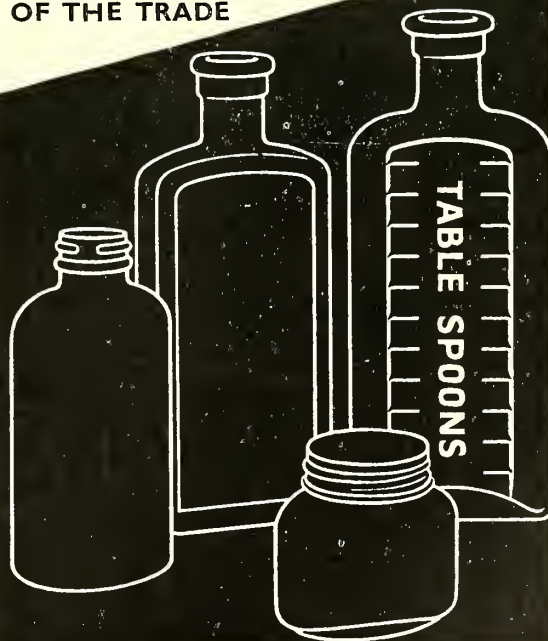
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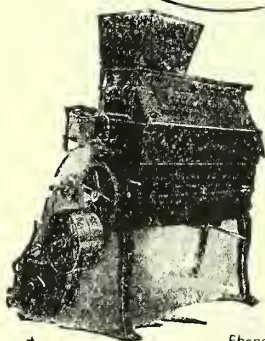
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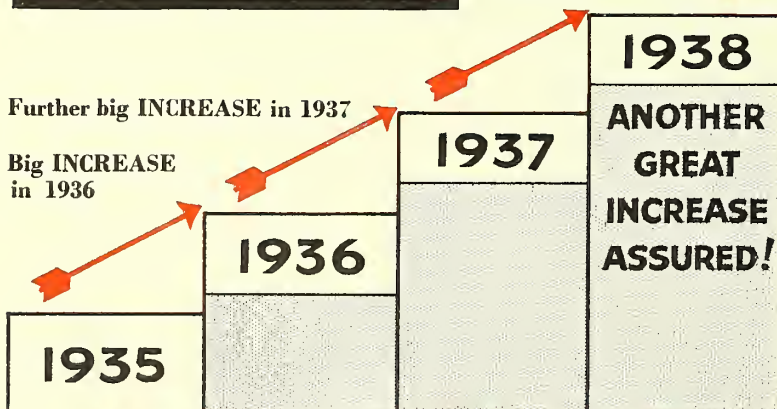
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Big INCREASE in 1936



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Vanishes without trace of greasiness.

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PARIS: 155 AVENUE DE WAGRAM, XVII^e (TEL.: ETOILE 19-791)
AMSTERDAM-C. HOLLAND: PLANTAGE FRANSCHELAAN 32

News of the Week

Business Changes

MR. A. E. WALLIS, M.P.S., has taken over the business of Armstrongs (Chemists), Ltd., 101 High Street, Maldon.

LEATH & ROSS, manufacturing chemists, have removed from High Road, London, N.W.6, to 342 Kilburn High Road, N.W.6. Telephone: Maida Vale 2814.

RAYNES DISPENSING CHEMISTS, LTD., 14 John Bright Street, Birmingham 1, are moving on April 16 to new premises at 37 Smallbrook Street, where the optical rooms of Mr. H. Rayne, M.P.S., F.S.M.C., will also be situated.

Proprietary Articles Trade Association

ALTERATION TO PROTECTED LIST

Newbery & Phillips, Ltd., Wampole products: Chemists in Great Britain ordering minimum of three dozen assorted are allowed an additional 5 per cent. discount. Revised prices in Ireland: Extract of cod liver, 15-oz. 6s., 54s. doz.; 8-oz., 3s. 6d., 31s. 6d. doz.; Phospho-lecithin, 16-oz. 7s. 6d., 67s. 6d. doz.; 8-oz. 4s. 6d., 40s. 6d. doz.; Cream of magnesia, 16-oz. 3s.; 27s. doz.; Magnolax brand emulsion, 20-oz., 5s. 6d.; 49s. 6d. doz.; 8-oz., 3s.; 27s. doz. Creo-Terpin compound, Wampole, is not now available in Ireland.

DELETION

Fissan, Ltd., Fissan products.

1938 YEAR BOOK CORRECTIONS

Page 71, Antiphlogistine brand dressings are manufactured by the Denver Chemical Manufacturing Co., 12 Carlisle Road, N.W.9. (Index No. 95 misplaced.)

Page 111, R. Demuth: Prices of Solid English Lavender, Great Britain, 2s., 16s. doz.; 3s. 6d., 28s. doz.

Page 257, Thompson & Capper Wholesale, Ltd.: Dentifrice Water, 1s. 9d. size, minimum wholesale price, 14s. per doz. (not 41s.).

Students' Continental Tour

A party from the London College of Pharmacy set out on March 19 for a tour in Central Europe, in the course of which visits were paid to six Czech and German towns. In Pilsen the tourists were officially received at the town hall and presented with souvenir badges by the mayor. Later, they were entertained to dinner by the S. K. Pilsen and the Pilsen English Club, and at this function were given a handsome vase of Czech glass to commemorate the visit. The Londoners presented their hosts with a silver statuette. A tour was made of the famous Prazdroz brewery, controlled by a board chosen by Pilsen citizens. The present building, although dating from 1842, houses up-to-date machinery for boiling and cooling the wort and for cleaning, repitching and filling the beer barrels, but the traditional brewing methods are still employed. In Prague the party were guests of the University Sports Club and

the pharmacy students, who gave a dance in their honour, at which they were officially welcomed by Professor Smotlacha for the University Club, Mr. Stepan for the pharmacists of Prague, and by the Professor for Physical Education. They were presented with another vase of Czech glass and with the flag of the Pharmacy Club. Suitably engraved mementoes were presented by the visitors. During the stay in the Czech capital the party were received at the City Hall by the Lord Mayor, who handed them souvenir books and welcomed them in the name of the Prague Council. Visits were paid to two pharmacies, one ancient and one modern. The first had gilded Gothic ceilings, marble-topped counters and exquisitely shaped shop rounds, each label bearing a coloured etching of a unicorn above the inscription; the second had inbuilt divans for the use of waiting customers, with ebony fittings and a pre-dominance of shop rounds gave a professional atmosphere. Football matches were played against S. K. Pilsen and Prague University, and both resulted in wins for the Czechs. Before the game in Prague, the London College team gave a demonstration of cricket, at the request of the University Sports Club (the first time cricket has been played in Czechoslovakia), and the College presented the equipment to Prague University Club. In Prague the party had the experience of taking part in air-raid precautions, including a black-out. The streets were flooded with tear gas, and there was a realistic raid by "enemy" aircraft. After leaving Prague, the party enjoyed a week-end in the snows of the Giant Mountains. From the mountains they went to Dresden, and from Dresden to Leipzig. In both cities there were sightseeing tours. Mr. V. P. A. Gelli acted as leader and spokesman.

Cambridge

RESOLUTION BY JOINT MEETING.—A joint meeting of the Cambridge Branches of the Pharmaceutical Society and the National Pharmaceutical Union was held on April 6, Mr. P. E. Cottis presiding. The secretary (Mr. W. Heap) reported that the whist drive and dance had resulted in a good profit for the Benevolent Fund. He also reported that in a recent simultaneous window display Croasdale & Son, Bury St. Edmunds, had gained first prize, and Mr. F. E. Harris, Cambridge second prize. The secretary then read the speech prepared by Mr. J. B. Simmons (absent owing to indisposition) on "National Health Insurance." Attention was drawn to points in the speeches of Mr. A. R. Melhuish and Mr. G. A. Mallinson at the Conference of Pharmaceutical Committees, and to the position created by the Juvenile Insurance Act. Many members joined in the subsequent discussion.

The following resolution was unanimously passed:—

"This meeting of the Cambridge and District Branch, whilst appreciating that the N.P.U. is compelled to await

CONTENTS

See p. 451

the result of the Juvenile Insurance Act on the Drug Fund, still considers that the remuneration from N.H.I. dispensing is inadequate, in view of the high standard of the training and the qualification of pharmacists."

Mr. J. Evans (a member of the N.P.U. Executive) then gave a short summary of the recent work of the Chemists' Friends Committee, disclosing that the committee would shortly issue a list of wholesalers who had guaranteed, under penalty, to supply C.F. lines to chemists only. He gave instances of the way in which the C.F. scheme was functioning throughout the country. During the discussion which followed Mr. C. C. Greensmith suggested that C.F. firms should arrange a window display service, which he thought would be even more successful than co-operative window displays. Mr. J. Evans and Mr. F. E. Harris were provisionally elected the *Delegates to the British Pharmaceutical Conference, 1938*. The secretary read through the resolutions to be placed before the delegates, and members discussed them for the guidance of the delegates. The meeting was declared closed with an expression of sympathy to Mr. B. J. Simmons in his illness.

London

MEMBERS' NIGHT OF PUBLIC PHARMACISTS.—The Guild of Public Pharmacists held a "members' night" on April 5, when papers were given by Mr. H. Berry (Dean, College of the Pharmaceutical Society), Miss F. M. Harvey and Mr. D. T. Curry. Mr. Berry, speaking on "The Chorio-allantoic Membrane Method for the Cultivation of Viruses," stressed the cheapness and purity of the product obtained by this method as compared with methods employing animals. Miss Harvey spoke on "The Work in the Pharmaceutical Department of a Borough Council," and Mr. Curry gave a paper on "The Development of Self-Analgesia in Obstetrics," exhibiting apparatus for the self-administration of nitrous oxide and air. He pointed out that the peak of labour pains was reached before the gas and air mixture produced anaesthesia, but if the air was short-circuited anaesthesia was produced in a few seconds. A vote of thanks to the lecturers was proposed by Mr. C. H. Sykes and seconded by Mr. F. W. J. Hooper. The president (Mr. F. B. Royal) presided.

SECOND ANNUAL DINNER.—At the second annual dinner of the Wimbledon and District Pharmacists' Association on March 30 there were representatives from the Thames Valley, Croydon, Redhill and Reigate, West Middleséx, South-Western, Wembley, and South-Eastern Associations. Mr. C. J. R. Pretty (president) was in the chair. Mr. A. I. C. Weston (vice-president), proposing "The Pharmaceutical Society of Great Britain," said if only every pharmacist realised that the Society was working for the common good there would be no obstacle to prevent their forward march. Mr. W. S. Howells, replying, said the success of the branch was largely due to the executive officers appointed. Mr. Howells then presented Mr. Pretty with a badge of office as president, the motto on which was, "The Ship is More than the Crew." Mr. Pretty returned thanks, and said he would be proud to wear the badge as their president, and would try to serve the branch zealously. Mr. F. G. Davis genially proposed "The Wimbledon and District Pharmacists' Association," and Mr. Pretty replied. "The Ladies" was submitted by Mr. T. James, and replied to by Mrs. J. K. Irvine, M.B.E. Dancing followed, the M.C. being Mr. Cyril Pretty. During the evening prizes were won by Mrs. Duffie, Mrs. Weston, Mrs. Snooks, Mrs. Stewart, Mrs. Hodges, Mrs. Keale and Mrs. Akers.

ELECTION ADDRESSES.—Members of Council, resident in the London postal area, who are seeking re-election this year were invited to address a meeting of South West London Chemists' Association and Branch of the Pharmaceutical Society on April 1. Mr. A. R. Melhuish felt that by means of National Health Insurance reservation of dispensing to the pharmacist would eventually become a reality. Referring to the 1933 Pharmacy Act, Mr. Melhuish said he was bitterly disappointed at not achieving reservation of dispensing through that Act. Throughout the negotiations he had stressed the anomaly that whilst insured persons had the right of having their prescriptions dispensed or supervised by the only people properly trained for the work, the uninsured population had not that right and privilege. He would be loth to raise false hopes but he was of opinion that the joint committee formed at the Liverpool Conference was wise and statesmanlike. He had given a pledge in the past as to keeping apprenticeship and membership fees at minimum rates. This pledge had been kept.

Mr. F. G. Wells said that his colleagues and himself had not consulted together but they must necessarily cover the same ground to a certain extent. He had only missed one Council meeting in nine years. As chairman of the Organisation Committee he strived to bring about closer touch with the branches. The 1933 Act was more of a poisons than a pharmacy Act. A new Act was necessary. He would press for the reservation of dispensing and of the sale of B.P. and B.P.C. drugs, galenicals, etc., with certain exceptions, to pharmacists.

Mr. Young said he went on to the Council with the idea of helping the retail side of pharmacy particularly. He would like to utter a word of warning regarding indiscriminate dilution of the Council with new "blood" at the present time. It took some time for a newcomer to get used to the work. Questions were put by Messrs. Atkinson, Begg, Edgecombe, Shakerley, Skues and Tibbett, the candidates giving detailed answers. Mr. E. Neville Browne occupied the chair, and a vote of thanks was moved by Mr. G. T. Baskerville, seconded by Mrs. Vera S. I. Browne.

Newcastle-upon-Tyne

OFFICERS ELECTED.—The annual meeting of the Newcastle and District and Northumberland Branch was held on April 7, when the following officers and committee were elected:—*President*, Mr. A. E. Harris; *Vice-President*, Mr. R. V. Atkins; *Secretary*, Mr. H. B. Watkins; *Treasurer and Social Secretary*, Mr. R. Bartle; *Lanternist*, Mr. J. N. Bennett; *Committee*, Miss M. Sutherland, Messrs. R. H. Dennison, T. H. Flemming, R. Hay, R. A. Hudspith, A. T. Rutherford, T. M. Simpson, T. S. Stonier, and D. J. Weddell. Delegates to the Conference were also elected, and the feeling of the members on the questions for discussion at the Conference was obtained. Discussion took place on the advisability of forming an Association of pharmaceutical organisations in the area. Details of such a scheme were left to a small committee to work out.

Nottingham

PHARMACY'S FUTURE.—The statutory meeting of the Nottingham and District Branch of the Pharmaceutical Society was held on April 6, Mr. H. T. A. Gretton presiding. After light refreshments had been taken, Mr. H. W. Wallis (a member of the Society's Council) delivered an address on "The Future of Pharmacy" in which he touched on the proposed assistants' union, the committee of inquiry, scarcity of apprentices and their training. He also mentioned that recent additions to the Council had reduced the average age of councillors to a little under 70. Questions were raised by Messrs. F. A. Bates, W. Lee, J. R. Ball, J. Hutchby, H. T. A. Gretton, J. H. Tomlinson, S. H. Turner, W. J. Clay, A. E. Turner, and C. E. Reynolds. The last-named maintained that the standard remuneration of a qualified chemist advertised by the Society was not worthy of a body which called itself a profession. Messrs. Gretton, F. W. Shepherd, P. A. Stansby, and Bates were appointed *Delegates to the Pharmaceutical Conference*. A vote of thanks to Mr. Wallis was proposed by Mr. A. E. Turner and seconded by Mr. T. R. Burrows.

Wembley

LECTURE ON ANTISEPTICS.—At a recent meeting of the Wembley Branch of the Pharmaceutical Society Mr. R. M. Jenner gave a lecture on "Antiseptics," dealing specially with the phenol group, metallic salts, halogens, oxidising agents and dyes and giving information as to the best method of treating broken and unbroken skin to prevent bacterial infection.

Irish Notes

Irish Drug Association

Mr. P. A. Brady (president) was in the chair at a meeting of the committee of the Irish Drug Association on March 28. It was reported that as a result of complaints from the Association the Proprietary Articles Trade Association had placed the name of a non-chemist retailer on its Stop List. A suggestion that the P.A.T.A. be asked to accept a lump sum in lieu of the annual subscription of 7s. 6d. paid by all Irish members was deferred to a future meeting. The secretary, asked for a ruling on the dispatch of prescriptions by post, stated that the usual practice was to charge for postage. Members are being

News in Pictures



1. **L.C.P. EUROPEAN TOUR.**—Group of London College of Pharmacy students photographed at the Prazdroz brewery, Pilsen, Czechoslovakia, on the occasion of the college tour to Central Europe (see report on p. 439).



2. **TRADING ESTATE EXHIBITION.**—Section of an exhibition at the Underground Railway station, Charing Cross, London, that was opened by the Minister of Labour, to advertise the Team Valley Trading Estate, County Durham.

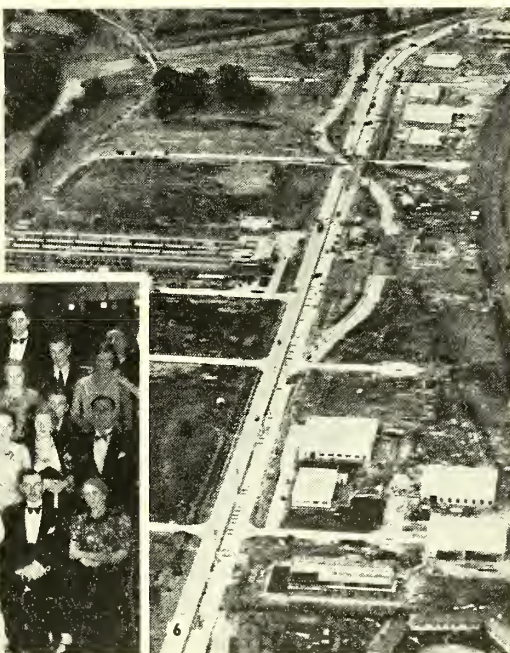
4. **ASSOCIATION PRESIDENT.**—Mr. G. Holley, recently elected *President*, Cardiff and District Pharmacists' Association.

5. **STAFF DANCE.**—Group at dance of the International Bottle Co., Ltd., held at St. Mary Axe, London, on April 2.

6. **TREFOREST DEVELOPMENTS.**—A recent aerial view of the twenty-six factory buildings completed or in course of erection at Treforest Trading Estate, South Wales.



3. **NOT STRICTLY D.D.A.**—Weighing out opium in the British colony of Aden, where restricted sales (at high prices) by licensed dealers are permitted.



requested not to send prescriptions post paid to customers. The Department of Industry and Commerce wrote stating that no further licences would be granted under the Agricultural Cereals Produce Act for the importation of baby and invalid foods. Dr. J. A. Mitchell was appointed to act as the Association's representative on the Employers' Court of Referees Committee set up by the Minister of Industry and Commerce. The secretary (Mr. R. J. Kidney) is now receiving items for inclusion on the agenda of the next delegates' meeting, at which local Associations are requested to make arrangements to be represented.

Belfast

GRAND JURY ENTERTAINED.—Sir Thomas McMullan, Mr. Fred Storey, Ph.C., and Mr. A. W. Mann, Ph.C., were members of the Grand Jury at the Belfast Easter City Commission. Mr. T. L. Cole, Ph.C. (High Sheriff of Belfast), entertained the Judges and members of the Grand Jury to luncheon on April 5.

AMENDMENT TO EXAMINATION REGULATIONS.—The "Belfast Gazette" of April 8 notifies that the Minister of Home Affairs, Northern Ireland, after consultation with the Minister of Education, has approved of the amendment of No. 71 (a) of the Regulations made by the Council of the Pharmaceutical Society of Northern Ireland on March 18 last under section three of the Pharmacy and Poisons Act (Northern Ireland), 1932. The effect of the amendment is that a student who fails to pass the examination in pharmacy can be referred in that subject without losing the subjects of chemistry and pharmacognosy in which he may have passed. Previously failure in pharmacy meant failure in the examination as a whole.

Scottish Notes

Dundee

MASS MEETING.—Under the auspices of the Scottish Pharmaceutical Federation a mass meeting of chemists was held in Dundee on April 3, Mr. James P. Ferrier in the chair. Mr. P. M. Duff, president of the Federation, explained in detail the Federation's draft Chemists' Friends scheme for Scotland. After a full discussion it was agreed that the Federation should inaugurate a scheme on the lines of the draft Minute of Agreement, and loyal support was promised in the event of the scheme being put into operation. Mr. John Weir, vice-president, then gave an address regarding the Minister of Labour's inquiry into the wages, hours and conditions in the retail distributive trades in Scotland. Reference was made to various matters recently dealt with by the Federation on behalf of different members. Reference was also made to the record membership and record funds of the Federation. On the motion of Mr. James R. Milne, a vote of thanks was accorded to Messrs. Duff and Weir, and a vote of thanks to Mr. Ferrier was proposed by Mr. Duff.

Miscellaneous

BOOTS, LTD., have opened a new branch at High Street, Leven, Fife.

MR. PETER MESTON, M.P.S., has purchased the business of Mr. John Hogg, M.P.S., 79 Port Street, Stirling.

MR. R. LORRAINE CAMERON, M.P.S., is now sole partner in J. C. Matheson, 27 Brunsfield Place and 16 Leven Street, Edinburgh.

Topical Reflections

By Xrayser

Salesmanship in Photography

Each of the aspects of photography dealt with in your last week's issue has a meaning in terms of salesmanship. I suppose there is no other side-line in the handling of which the man behind the counter needs to be so entirely of the moment, so alertly up to date. In this department the best is the enemy of the good, as the proverb goes. I have been impressed by the number of selling points, explicit and implicit, in your articles. In "Exposure Meters," for instance, I read, "The opinions as to what a perfect negative should look like differ greatly"; and in another paragraph "In general . . . it can be reckoned that an exposure time of one-quarter of that indicated by the meter will still yield a printable negative, while an over-exposure of ten times will not be hopelessly lost." If I were handling goods of this kind I should seize on points like these for sales talk to my customers. No retailer need be at a loss in this respect if he will go systematically through such practical discussions of the subject with which he is concerned. My own experience as an amateur photographer goes back to the time when it was considered safer to work with a stand camera if one intended to keep one's results; and through some of my older customers I obtained a slight acquaintance with the delights of using wet plates. An original member of the Royal Photographic Society assured me that on one occasion he found in his garden a donkey which had succumbed to the fumes of ether emanating from his darkroom!

The Curtain is Rung Up

I confess that for most months in the year I read reports of Council meetings of the Pharmaceutical Society of Great Britain with languid interest, surmising that the "live" part of the proceedings is compressed into the time available on Tuesday evenings, when reporters are not present. Pages 415-416 of your issue of April 9, however, form an exception, with a range from topics as serious as any that pharmacy has of late years had to consider to others that may almost be classed as light comedy, and with the stage set for the next Council election, I am inclined to regard the remarks of the Codex Revision Committee on standards as first in importance. It is well to have it on record that "the present Codex has not been prepared with the intention that it should serve as a statutory standard." The whole question of standards in this country needs very

careful handling: we have only to go back as far as 1932 to remind ourselves that there is an occasional discrepancy between the requirements of the British Pharmacopoeia and those of the Regulations made under the Therapeutic Substances Act of 1925. The Pharmacopoeia Commission has done wisely in setting up a research laboratory, and it may be that the considered spending of further sums in this direction and enlisting the aid of independent experts will be amply justified. The financial statement of the Society serves as a pointer to one or more awkward hurdles that have to be negotiated in the not far distant future. I have not space to do more than glance at the imposing list of names of candidates for election to the Society's Council next month; but I can imagine the seven retiring members saying to the five non-members, as Charles the Second is said to have told his brother James, "They will never kill us to make you King."

The Unwanted Traveller

ON p. 411 I notice a news item that reads rather like a *cri du cœur*: "A new practice is becoming prevalent among travellers in South Wales. They call frequently on the morning of the half-day or on Saturday mornings." I hope I have never been rude to a commercial traveller, if at times I may have felt like being so; and I realise that even in these days of organised routine, with its tendency to unvarying standardisation, a representative cannot so plan his day as to keep clear of every conceivable time that may prove inconvenient for a visit to a customer. The basic fact is that in such a relationship as this there must be give and take: even in matrimony—but that is another story. There was a time when for the retailer a visit from "our representative Mr. So-and-So" was a welcome event, and I have no reason to suppose that this is no longer the case. One of my employers used to make out two orders, of about equal value, for two travellers of competitive houses who were expected about the same time: sometimes, in fun, he would offer the man who arrived first his choice of the two. The payment of one's account was in Victorian times a subsidiary, not to say unimportant, part of the interview. A silk-hatted, well-groomed gentleman in the 'eighties used to say with a deprecating air, if that subject was mentioned: "My dear sir, I am not a collector of accounts; I am an ambassador of commerce."

Proprietary Articles Trade Association

Council Meeting

THE quarterly meeting of the Council of the Proprietary Articles Trade Association was held at the Russell Hotel, London, on April 7, the president (Mr. G. M. Garcia) in the chair.

The president extended a welcome to Mr. Yeates on his first attendance at a Council meeting (he was prevented by illness from attending the January meeting). Mr. Yeates made suitable acknowledgment.

The Council received the Executive Committee's report on the steps taken to secure cessation of supply of P.A.T.A. goods to canteens, and approved the Committee's actions.

The Committee reported on complaints regarding breaches of P.A.T.A. conditions by co-operative societies and that it had been found necessary to place a number of societies on the Stop List. The Council approved the Committee's action and their report that a special inquiry into the general position of co-operative societies in relation to the P.A.T.A. would be made.

The Council regretted that a member of the Manufacturers' Section had tendered his resignation. It appeared the manufacturers found that they were hampered by the unfettered position of competitors who were not members of the P.A.T.A. It was noted with concern that the retail trade appeared to give full support, display and co-operation to the non-P.A.T.A. manufacturers, and it was recalled that another firm recently withdrew for similar reasons. The Council endorsed the recommendation of the Retail Section that special steps should be taken to advise retail members of these factors, and stressing the necessity of giving full support to manufacturers who protected prices and profits through the P.A.T.A.

The Council received the report of the trustees of the Glyn-Jones Memorial Fund, expressing satisfaction with the administration of the fund and with the fact that their contribution to its income had enabled the trustees to assist a larger number of applicants than previously.

The Council received a comprehensive report on price-maintenance and investigation work during the past quarter. A number of penalty agreements and bonds had been entered into by traders as a condition of removal from the Stop List; special investigations into price-cutters' sources of supply were being pressed and had already yielded valuable information and results. The report was approved.

Certain items connected with the Protected List and an application for membership of the Wholesale Section were dealt with.

Annual Meeting

THE forty-second annual meeting of the P.A.T.A. was held on April 7, the president (Mr. G. M. Garcia) in the chair. After some discussion the meeting confirmed resolutions adopted by the Council in July and October 1937 embodying amendments to Rules 42, 44 and 45.

Moving the adoption of the annual report and financial statement, the president referred to the satisfactory membership position (increases in the Manufacturers' and Retail Sections). The fact, he said, that in fifteen thousand registered chemists' shops there was no price-cutting was noteworthy. Price-cutting position in the London area was a matter of serious concern to the Council. An unusually strong campaign against cutters' suppliers was being waged, and he felt convinced that at the next annual meeting the Council would be able to present a good report on this subject. He stressed that it was essential that manufacturers should co-operate to the fullest extent with the Association, particularly in the matter of coding. The production of the Year Book and the advertising support it had received deserved special mention. The House of Lords' judgment in the Motor Trade Association Appeal Case and the new Trade Marks (Amendment) Act were factors likely to strengthen the hands of the Association. The financial statement showed that in spite of increased activities and greater responsibilities the Association was still able to live within its income.

The adoption of the report was seconded by Mr. Pickard and supported by Messrs. F. Smith, E. Skues and J. Milner.

Mr. H. CRAVEN, Sheffield, complained for members in Sheffield of breaches of P.A.T.A. conditions by local co-operative societies, and asked whether these societies were to be allowed to flout the P.A.T.A. with impunity. Chemists in Sheffield, he said, might have to consider whether it was wise to continue membership of the Association unless more drastic efforts were made to deal with abuses.

Mr. HOBSON endorsed Mr. Craven's remarks and stated that the offending co-operative societies were taken off the Stop List too quickly; something should be done to make the public realise that they could not receive dividend on P.A.T.A. goods; and steps should be taken to prevent stop-listed societies from replenishing their supplies. He asked what undertaking had been given by certain societies as a condition of removal from the Stop List.

THE SECRETARY gave particulars of the undertaking and of the detailed instructions that had been furnished to branch and departmental managers of the Societies.

THE PRESIDENT said that he was glad the matter had been brought forward, and assured the delegates from Sheffield that the Association would carefully investigate the complaints that had been made, and would not hesitate to take whatever action the circumstances required.

Mr. CRAVEN thanked the president for the way in which the grievances of the Sheffield chemists had been received, and accepted his assurance that the matter would receive prompt attention.

Mr. YEATES said that the position was much the same in Plymouth some time ago. There, the Association had taken effective action and local members had now no cause for complaint.

The report was then formally adopted.

A vote of thanks to the chairman, administrative officers and staff was proposed by Mr. S. Watson, seconded by Mr. F. J. Smith, and carried unanimously.

P.A.T.A. Year Book

The Protected List and Year Book for 1938 of the Proprietary Articles Trade Association has recently been issued (pp. vii and 312). Included in the publication are a list of officers, the constitution and rules of the Association, local secretaries, the forty-first annual report and financial statement, and a list of firms whose goods are on the Protected List. Information is also given on the Chemists' Defence Association, the National Pharmaceutical Union, the Chemists' Mutual Insurance Co., Ltd., and the Chemists' Sickness and Provident Society.

Company News

P.C. means Private Company and R.O. Registered Office

THE A. G. P. Co., LTD. (P.C.).—Registered in Edinburgh. Capital £2,000. Objects: To carry on the business of manufacturers of and dealers in anti gas and protective equipment and apparatus and materials of all kinds, etc. J. N. Browne, 12 Renfield Street, Glasgow (director of J. Nixon, Browne & Partners, Ltd.), director. R.O.: 12 Renfield Street, Glasgow, C.2.

LONDON MOULDERS, LTD. (P.C.).—Capital £10,000. Objects: To carry on the business of manufacturers and dealers in chemical products of all kinds, resins, enamels, cements, etc. George Spencer, Lutterworth, near Rugby, gentleman, Herbert B. Spencer, The Firs, Coldharbour Lane, Bushey, Herts, directors. Solicitors: Browne, Jacobson & Hallam, 44 Friar Lane, Nottingham.

THE BRITISH DRUG HOUSES, LTD.—The directors recommend the payment of a dividend of 6 per cent. (less tax) on the ordinary shares for the year ended December 31, 1937.

LEWIS & PEAT, LTD.—Report for 1937 shows profit of £18,514 (against £23,889). Preference dividend for year, £12,374; to reserve £5,000 (same); forward £8,395 (£7,255).

Pharmaceutical Society of Great Britain

Financial Statements

General Fund Accounts

Expenditure (two years compared)

College of the Society :—	1936			1937		
School of Pharmacy :—	£	s.	d.	£	s.	d.
Administrative Salaries ...	200	0	0	200	0	0
Advertising, Stationery, etc. ...	143	7	10	244	1	8
Salaries of Teaching Staff ...	4,788	8	4	5,103	10	0
Departmental Wages ...	815	15	6	902	16	9
Laboratory Maintenance ...	1,724	11	4	1,500	14	8
Premises Maintenance ...	1,060	5	6	1,111	19	9
Other Educational Expenses ...	178	7	8	132	17	11
Pharmacological Laboratories :—						
Administrative Salaries ...	200	0	0	200	0	0
Advertising, Stationery, etc. ...	53	5	8	110	7	2
Salaries of Teaching Staff ...	3,966	5	0	3,914	3	4
Departmental Wages ...	1,030	5	2	1,118	10	6
Premises Maintenance ...	212	1	1	222	7	10
Laboratory Maintenance ...	1,115	13	8	1,173	16	3
Other Educational Expenses ...	743	15	9	602	0	10
Capital Expenditure ...	0	0	0	38	4	0
[Totals :—1936, £16,272 2s. 6d.; 1937, £16,665 os. 8d.]						

Examinations :—

Examiners' Fees and Expenses :—						
England and Wales ...	5,287	7	5	5,975	18	11
Scotland ...	2,176	19	9	2,903	16	9
Invigilators' Fees and Expenses :—						
England and Wales ...	560	10	6	612	19	8
Scotland ...	17	17	0	—	—	—
Examination Assistants :—						
England and Wales ...	1,522	17	0	1,018	17	10
Scotland ...	245	19	0	217	7	4
Refreshments :—						
England and Wales ...	260	3	7	248	9	3
Scotland ...	96	0	1	133	17	1
Drugs, Apparatus, Hire, Stationery and Sundries :—						
England and Wales ...	1,430	4	7	2,350	19	1
Scotland ...	897	18	1	1,101	0	7
[Totals :—1936, £12,495 17s.; 1937, £14,563 6s. 6d.]						

Miscellaneous :—

Cost of Conducting Prize and Scholarship Examinations ...	282	9	11	303	1	9
Inspection of Schools, etc. ...	48	7	8	65	14	6
Evening Meetings ...	224	13	4	40	3	5
Syllabus Committee, etc. ...	76	8	5	842	5	1
[Totals :—1936, £631 19s. 4d.; 1937, £1,251 4s. 9d.]						

Law and Registration :—

Register Publication ...	751	17	2	532	6	6
Certificates of Death ...	26	18	4	25	17	9
Salaries, Registration ...	1,855	7	8	2,122	0	6
Postage and Sundries ...	306	18	10	250	4	2
Agents' Salaries and Expenses ...	1,886	11	5	1,334	2	8
Inspectors' Salaries and Expenses ...	4,566	16	4	6,340	15	8
Prosecutions and Sundries ...	965	16	0	1,281	19	10
Capital Expenditure ...	0	0	0	0	0	0
[Totals :—1936, £10,360 5s. 9d.; 1937, £11,887 7s. 1d.]						

Benevolent Fund :—

Current Account Annuities ...	1,845	10	0	1,787	0	0
Christmas Boxes ...	175	0	0	190	0	0
Grants ...	3,876	7	4	4,155	6	0
[Totals :—1936, £5,896 17s. 4d.; 1937, £6,132 6s.]						

Hills Orphan Fund Grants ...	132	0	0	132	0	0
Orphan Fund Grants ...	320	0	0	113	15	0

War Auxiliary Benevolent Fund Grants ...	1,319	11	6	1,173	0	0
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Supplementary Benevolent Fund Grants ...	0	0	0	0	0	0
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Organisation :—

Grants to Branches ...	2,272	9	6	2,314	14	0
B.P.C. Representatives' Fares ...	327	0	4	208	4	2
B.P.C. General Expenses ...	125	12	9	159	14	7
Branch Speakers' Expenses ...	353	14	10	371	19	6
Salaries ...	342	6	0	334	18	0
[Totals :—1936, £3,421 3s. 5d.; 1937, £3,389 10s. 3d.]						

Publications :—

Pharmaceutical Journal :—						
Expenditure less Income ...	7,636	13	11	6,688	7	10
Postage ...	5,464	1	10	5,562	13	3
Capital Expenditure ...	20	15	7	0	0	0
British Pharmaceutical Codex ...	2,983	14	11	2,593	7	7
Extra Pharmacopœia ...	2,750	8	9	6,192	7	7
Pharmaceutical Pocket Book ...	359	0	3	250	12	2

	1936			1937		
	£	s.	d.	£	s.	d.
Quarterly Journal ...	1,463	3	10	1,435	17	8
Calendar ...	556	14	5	388	0	8
Poisons Law ...	1,629	18	0	255	9	3
History of Pharmacy ...	0	0	0	479	19	9
Sundry Publications ...	486	19	11	1,169	10	8
[Totals :—1936, £23,351 11s. 5d.; 1937, £25,016 6s. 5d.]						

North British Branch :—

Library ...	92	2	6	89	11	5
Rent, Rates, Taxes, Insurance ...	820	6	7	1,006	17	5
Light, Water, Cleaning, Repairs ...	564	19	6	700	14	6
Salaries ...	1,400	11	4	1,379	4	6
Executive Members' Travelling Expenses, etc. ...	132	6	1	148	10	1
Resident Secretary's Travelling Expenses ...	143	5	3	118	12	0
Stationery, Printing, Sundries ...	197	19	9	214	5	0
Telephone ...	36	10	3	43	13	8
[Totals :—1936, £3,388 1s. 3d.; 1937, £3,701 8s. 7d.]						

Headquarters :—

Museum :—						
Curator, Assistant and Sundries	463	3	7	456	14	2
Library :—						
Salaries and Wages ...	687	16	0	704	2	0
Purchase and Binding, etc. ...	471	10	4	476	14	8
House :—						
House Servants' Wages ...	1,130	12	0	1,220	2	0
Rent, Rates, Taxes, and Insurance, including Premium on Lease Redemption Policies	2,489	17	9	2,770	13	8
Repairs, Electric Service and Fittings ...	412	10	11	300	14	10
Light, Heating, Cleaning, Water Less charged to College ...	1,268	7	2	1,268	8	2
Administration :—						
Salaries and Wages, Secretary and Clerical Staff ...	6,771	1	2	7,309	14	6
Stationery, Printing and Office Expenses ...	2,223	17	8	2,179	2	11
Postage ...	770	11	4	706	6	8
Telephone ...	175	14	5	209	3	10
Fee to Chartered Accountants ...	175	0	0	175	0	0
Members of Council, Travelling Expenses, etc. ...	1,293	6	8	1,278	19	8
[Totals :—1936, £17,061 2s. 5d.; 1937, £17,721 9s. 6d.]						

Surveyors' Charges (Premises) ...	0	0	0	0	0	0
Superannuation ...	2,277	9	7	2,659	17	8
Pensions ...	2,144	11	1	2,619	1	0
British Social Hygiene Council ...	1	0	0	2	1	0
Fédération Internationale Pharmaceutique ...	78	1	0	75	19	1
British Standards Institution ...	5	5	0	0	0	0
International Hospital Association ...	5	0	0	5	0	0
Parliamentary Science Committee ...	10	10	0	10	10	0
Belgian Students' Visit ...	21	8	0	0	0	0
International Association for Plants Secretary's Expenses to German Congress ...	0	0	0	15	2	6
Proprietary Medicines Investigation Testing for the Ministry of Health ...	0	0	0	50	0	0
Coronation Banquet ...	0	0	0	398	8	7
General Journalistic Work ...	0	0	0	108	17	0
To Benevolent Fund (Revenue Acct.)	217	18	8	288	11	6
To Benevolent Fund (Invested Fund)	3,012	10	0	182	6	8
To Hills Orphan Fund ...	80	9	9	81	0	8
To Orphan Fund ...	0	0	0	109	9	6
To Supplementary Benevolent Fund	5	0	0	5	0	0
To Premises Fund ...	1,571	13	1	1,819	9	6
Premises Fund ...	16,800	0	0	0	0	0
General Fund ...	28	1	9	14,214	3	2
£120,909 9 10 £124,398 14 7						

Income (two years compared)

College of the Society :—						
Qualifying Fees ...	3,909	14	2	4,155	13	2
Post-graduate Fees ...	220	3	6	213	10	6
Miscellaneous ...	4	12	6	8	2	6
Pharmacological Laboratories :—						
Pharmacological Department ...	926	11	6	1,081	4	0
Nutrition Department ...	4,551	5	0	2,070	17	6
Miscellaneous ...	40	0	0	30	0	0
London University Grant ...	650	0	0	650	0	0

Examination Fees :—	1936	1937
Preliminary Scientific (Exemption) ...	98 14 0	88 4 0
Qualifying ...	30,880 10 0	31,164 0 0
Post-graduate ...	168 0 0	178 10 0
[Totals :—1936, £31,147 4s.; 1937, £31,430 14s.]		

Register of Chemists and Druggists...	320 2 0	580 6 9
Premises Registration ...	16,021 19 0	16,435 13 0
Apprentices or Students' Registration	1,499 8 0	1,302 0 0
Chemists and Druggists' Registration	137 11 0	120 15 0
Restoration Fees ...	257 15 6	368 0 6
Certificates of Qualification, etc. ...	2 5 0	3 10 0
Costs and Penalties ...	587 12 1	1,107 2 7
Income from S. G. Challinor's Legacy	0 0 0	7 10 4
Inspection of Premises for Local Authorities ...	0 0 0	858 2 6
Benevolent Fund :—		
Subscriptions ...	2,325 17 9	2,743 11 0
Payments under Deeds ...	336 2 5	392 2 2
Rents, etc. ...	2,030 6 4	1,980 15 8
Dividends and Interest ...	1,240 4 6	1,287 18 4
Proceeds of Life Policy ...	182 5 0	0 0 0
Other Charity Funds :—		
Subscriptions, Interest, etc. ...	3,560 11 4	725 1 2
Publications Department :—		
British Pharmaceutical Codex ...	3,879 16 1	2,955 7 7
Extra Pharmacopœia ...	2,576 1 8	10,217 6 6
Pharmaceutical Pocket Book ...	347 4 3	304 1 10
Quarterly Journal ...	750 5 11	658 15 5
Calendar ...	342 6 2	576 10 1
Poisons Law ...	2,157 19 11	281 13 8
Sundry Publications ...	601 13 11	1,068 4 9
History of Pharmacy ...	0 0 0	325 13 10
[Totals :—1936, £10,655 7s. 11d.; 1937, £16,387 13s. 8d.]		

Headquarters :—		
Interest on Investments ...	1,571 13 1	1,819 9 6
Grant in Aid from Benevolent Fund	0 0 0	0 0 0
Grant in Aid from War Auxiliary Benevolent Fund ...	1,185 17 3	1,071 10 8
Grant in Aid from Supplementary Benevolent Fund ...	0 0 0	0 0 0
Grant in Aid from General Fund ...	0 0 0	0 0 0
Members' Retention Fees...	34,429 4 9	35,318 6 6
Student-Associates' Subscriptions	400 11 6	368 0 6
Interest on Investments :—		
Dividend on 4% Funding Stock	193 5 9	190 6 11
Interest on Deposit at Bank ...	182 10 4	167 5 8
Less Income Tax on Deposit		
Interest ...	8 11 0	46 10 0
Net Rents :—		
5, 6 and 7 Paddington Green ...	421 2 0	414 4 5
15 Bloomsbury Square ...	242 12 6	238 2 6
Brunswick Square Estate ...	1,561 12 6	908 13 7
	£120,909 9 10	£124,398 14 7

The total income is announced as £123,327 3s. 11d. (£119,600 9s. 11d. in 1936), and the total expenditure as £107,698 13s. 7d. (£99,193 16s. 7d. in 1936). The assets and liabilities of the General Fund, Premises Fund, Benevolent Fund, War Auxiliary Benevolent Fund, Supplementary Benevolent Fund, Orphan Fund, and Hills Orphan Fund are also given.

London Examination Results

THE following are the results of the examinations held in London during the present month :—

Examination	Entered	Absent	Failed	Referred	Passed
Preliminary Scientific :—					
(a) Whole examination...	198	4	126	50	18
(b) Referred subject ...	118	—	—	80	38
Chemist and Druggist Qualifying :—					
(a) Whole examination ...	87	2	44	22	19
(b) Referred subject ...	47	1	—	11	35

SUMMARY OF REJECTED CANDIDATES

Subject	Entered	Absent	Referred	Failed
Biology (botany + zoology) ...	52 } 274	— } 4	16 } 88	20 } 117
(botany section only) ...	222	4	72	97
Chemistry ...	216	4	19	104
Physics ...	220	4	23	96
Pharmacognosy ...	99	3	5	16
Pharmaceutics ...	104	2	13	34
Physiology ...	78	2	3	23
Pharmaceutical chemistry ...	97	2	6	27
Forensic pharmacy ...	90	2	6	35

CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

The following candidates have satisfied the examiners :—

Andrews, E. G., Camden Town	Gullen, C., Rhoease
Andrews, F. S. C., Great Yarmouth	Hall, E. S., Hull
Atherton, G., Winsford	Hawkes, A. T., Taunton
Barton, L. J., Exeter	Haworth, Marion, Blackburn
Bedwell, H. J., High Wycombe	Isaac, I., Mountain Ash
Briers, Jean, Chorley	John, W. R., Hengoed
Bromhall, J. H., Norbury	Lark, E. T. S., Plymouth
Bruce, C. W., Southend	Lawrence, T. G., Farnham
Chapman, M. W., Brighton	Lloyd, C. T., Brierley Hill
Cooke, John, Sandbach	Long, C. A., Wembley
Cooper, G. W. S., Cheltenham	McKelvey, C. J. G., Cardiff
Davey, Hilda E., Fulham	Mackrill, E. H., Highbury
Davies, H., Goodwick	Mead, R. L., Whitstable
Davies, L. W., Barry	Mills, H. G., Winchester
Drakes, Edward, Salisbury	Parker, A. L., Yeovil
Dunthorne, G. A., Norwich	Penrose, K., Sutton
Ellis, R. F., Bedford	Pettit, H. E., Bristol
Evans, M. J., Derby	Pickles, A., Blackburn
Feldman, H., Blackfriars	Rees, B. I., Burry Port
Fenton-Jones, D. C., Clacton	Saunders, A. H., Plymouth
Grassby, J. C., Hull	Simms, L. R., Leeds
Griffiths, D. J., Aberdare	Smitham, W. K., Camborne
Grindrod, D., Oldham	Stafford, T., Manchester
Groves, Henrietta E. R., Brighton	Thomas, T. E., Llandysul
	Truscott, R. J. N., Gosport
	Turner, R. G. B., Cheltenham
	Turton, O. P., W. Bromwich
	Williams, C. H., Cardiff
	Williams, Edith E., Cardiff
	Wombell, J., Mansfield

North British Branch

A MEETING of the Executive of the North British Branch of the Pharmaceutical Society was held at 36 York Place, Edinburgh, on April 8, Mr. W. Spence Culbert in the chair.

The chairman extended a cordial welcome to the president, Mr. Thomas Marns, and also to the secretary, Mr. H. N. Linstead. He then reported the loss by death of three well-known members of the Society—Provost W. S. Taylor, Mr. Peter Boa and Mr. H. M. Dugan.

METHYLATED SPIRITS (SCOTLAND) ACT

Through the London office a supply of statutory declaration forms had been arranged to be issued to authorised sellers of poisons in Scotland who were applying for a methylated spirits licence or for a renewal of the licence.

COUNCIL'S COMMITTEE OF ENQUIRY

The chairman explained that this Committee had been appointed in connexion with the Liverpool Conference Representatives' meeting. The Committee had appointed four sub-committees, and these were engaged in preparing a full report. In co-operation with the office in Edinburgh, the Scottish members of the Committee were preparing a report which they hoped to be able to submit to the next meeting of the General Committee.

GLASGOW CORPORATION AND SUPPLY OF DRUGS

Communication with the Public Health Department of the Corporation of Glasgow had been made which had eventuated in the adoption by the Glasgow Corporation of a resolution in favour of some control over the distribution of drugs and the resolution had been forwarded by the Glasgow Corporation to the Home Office, to the Secretary of State for Scotland, and to the Council of the Pharmaceutical Society. The Council had decided to co-operate with the authorities in any steps that might be taken to give effect to the resolution.

PHARMACY ADVISORY COMMITTEES

Mr. Guthrie and Mr. Duff have been reappointed members of the Pharmacy Advisory Committee in connexion with the Royal Technical College, Glasgow. Professor Barger, who had been recently appointed Professor of Chemistry in Glasgow University, had become a Governor and has chosen to be a member of the Pharmaceutical Advisory Committee. Mr. Somerville and Mr. T. Wilson, as retail pharmacists, and Mr. Innes and Mr. Holder as manufacturing chemists, have been appointed members of the Advisory Committee of the Department of Pharmacy in the Heriot-Watt College, Edinburgh.

EXECUTIVE ELECTION

It was unanimously agreed that the next election of Executive take place on June 15, 1938, and that the chairman and vice-chairman be appointed scrutineers of the voting papers, with power to add to their number.

DISTRIBUTIVE TRADES COUNCIL

MR. DUFF, president of the Scottish Pharmaceutical Federation, said a circular letter had been sent to all the members of the drug trade in Scotland, pointing out their position and indicating certain objections to the proposed setting up of this Distributive Trades Council.

MR. BENNETT said this was a matter that should not be gone into without some reference to the Pharmaceutical Society. From reports he found a grave state of dissatisfaction with considerable dissension and differences of opinion. There were also various bodies putting forward different ideas and apparently in some respects pulling against each other and not work-

ing harmoniously. He thought the Council should address itself to the proposition of bringing all these bodies together. There was only one body that could represent pharmacy in Great Britain to-day, and that was the statutory chartered Pharmaceutical Society of Great Britain. He thought the Council might set itself to getting all pharmacists, both employers and employees, into one active body which would represent pharmacy in all its aspects and on all occasions and in that way would get somewhere. He would like to see the employees organised as a part of the organisation of the Pharmaceutical Society rather than in connexion with the N.P.U. or the Scottish Pharmaceutical Federation, useful as these organisations were. The employees so organised might dictate terms to the Government. The Pharmaceutical Society might act very much in the same way as the British Medical Association did.

MR. LINSTEAD said he had listened with much interest to the statement made by Mr. Bennett, and the points he had raised were deserving of very careful consideration.

Chemists' and Druggists' Society of Ireland

THE annual meeting of the Chemists' and Druggists' Society of Ireland was held at 11 Waring Street, Belfast, on March 30, the president (Mr. Fred Storey) in the Chair.

ADOPTION OF REPORTS

Mr. J. Macaulay (secretary) in his report stated that the membership had been well maintained, and that the finances were sound. They were still represented on the Pharmaceutical Council by Mr. Samuel Gibson, J.P., Mr. John Grimes, J.P., and Mr. W. Martin, assisted by Mr. C. Abernethy as pharmaceutical representative. Feeling that there should be some recognition of the hospitality of the president and Mrs. Storey, and also of their good work for the Society, members had arranged a presentation which had received enthusiastic support. A committee was formed with Mr. C. Abernethy as chairman and Mr. J. Macaulay as secretary, and a reception and presentation had been held in the Café Royal, Belfast. Much of the success of this function was due to the work of the ladies' committee, consisting of Mrs. Abernethy, Mrs. Gibson, Mrs. Macaulay and Mrs. Martin.

MR. GIBSON presented the financial statement, which disclosed a substantial credit balance.

THE PRESIDENT, in moving the adoption of the report, said it was pleasing to see that the membership was being so strongly maintained, but it was regrettable that there had been so many losses by death during the year. Mr. David Walsh (Banbridge), Mr. Lawson (Limavady), and Councillor R. J. Groves, a member of the Committee, had been valued supporters and would be greatly missed. The interests of the Society continued to be well looked after on the Pharmaceutical Council. Mr. Storey assured the Society that he and Mrs. Storey had been deeply touched by the presentation. The Benevolent Fund, he was glad to say, was going on steadily and quietly, and their trade organisation (the Ulster Chemists' Association) was working hard in the interests of members and should be enthusiastically supported.

ELECTION OF OFFICERS.

Moving the re-election of Mr. Storey as *President*, Mr. Abernethy said he was the best friend they had ever had, and the debt they owed him could never adequately be measured. Seconding, Mr. Martin said there was nothing affecting chemists' interests that was too trifling for Mr. Storey to bother with. Mr. Storey replied that he was deeply touched at that fresh evidence of their confidence in him. The year was, he thought, his nineteenth as their president. His connexion with the Society was practically his only link with the pharmaceutical business at the moment, but they could rest assured of his whole-hearted co-operation in every matter of interest to them and their trade. No matter how much he was otherwise engaged—and he was engaged in a good many other things—the claims of the Chemists' and Druggists' Society would remain paramount. Their trade had been quiet for the past few years, but one never knew when something would crop up which would require immediate attention from their organisation, and therefore he counselled them to be prepared. If anything arose in the way of legislation they could count on

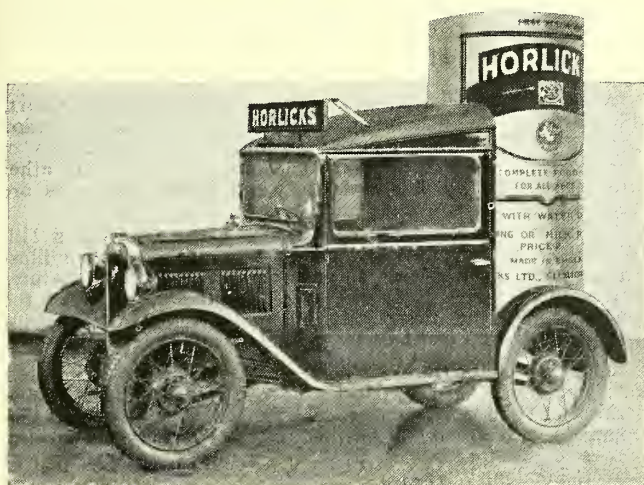
his help. The *Vice-Presidents* (Messrs. C. Abernethy, J. F. Grimes, S. Nevin and F. T. Smith (Antrim) were re-elected on the proposition of Mr. Taylor, seconded by Mr. Johnston. Proposing the re-election of Mr. Gibson as Treasurer, the president said he had been holder of that office for so long that he was almost the Society himself. He had been treasurer ever since he could remember, with only one year's interval through ill-health, when his brother temporarily took over. Mr. Macaulay seconded. In reply, Mr. Gibson said he thought that would be his fiftieth term of office, and added amid laughter that when he did retire he would be eligible for a substantial pension. Mr. Macaulay was reappointed *Secretary* on the motion of Mr. Abernethy, seconded by Mr. Roberts. Mr. M'Quitty moved, and Mr. Johnston seconded, that the *Auditors* (Messrs. Martin and Roberts) should be re-elected; this was carried, and on the motion of Mr. Johnston, seconded by Mr. Taylor, the president was appointed *Representative on the Belfast Chamber of Commerce*. The *Committee* were re-elected on the proposition of Mr. Gray, seconded by Mr. Richey, and were instructed to co-opt a member to fill the vacancy caused by the death of Councillor Groves.

DISCUSSION.

A discussion was initiated by Mr. Abernethy on the threat to individual traders by chain stores and combines. The president said this was a very important subject to members of their particular trade. The combination principle was entering not only the field of the retailer, but also the wholesale and even the manufacturing end. In such circumstances the individual trader should watch the situation carefully, and if the occasion arose take common action. Chain stores and combines did not help a city like Belfast much, because there were a great many things which they did not purchase locally, but got from their headquarters across the water. Often their managers and keymen were also brought over, so that the labour question came into it also. Before the revaluation took place there had been a great outcry that traders were not paying their fair proportion of income tax on account of the low valuation, and he had been a member of a deputation which had gone to the Minister of Commerce on the subject. The deputation had put their case tenaciously, and had given the Minister a list of the chain stores in High Street alone, asking why the local community was not entitled to a share in the profits made from trading locally. It seemed that Northern Ireland being a part of Great Britain, nothing could be done in the way of legislation, although they had a separate Parliament. Mr. Boyle asked if the Northern Ireland Parliament could bring in a Bill to enable local traders to hold 50 per cent. of the shares of a company controlled by a cross-Channel combine, in the same way as was done in the South of Ireland. The president said he was afraid it could not. He had asked the Minister about this matter in particular, pointing to the conditions prevailing in Ireland and the Isle of Man, and his reply was that these were separate entities, but that Northern Ireland was part of the United Kingdom. The deputation, however, had to see the Minister at a later date, and the matter was not really decided yet. Afterwards, the members of the Society were entertained to tea by the president.

Vehicles of Display

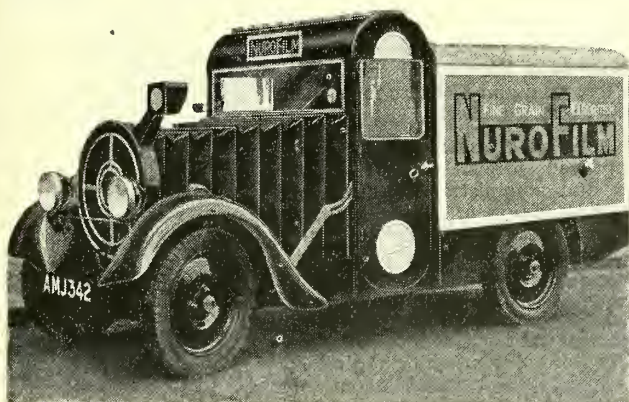
Examples of trade vans used for advertising and selling purposes



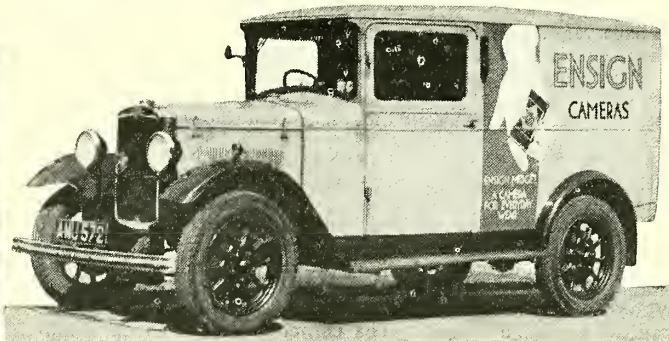
GIANT PACKAGE—Van in use in Ceylon for Horlick's malted milk. (Built by Clement Butler & Cross, Ltd.)



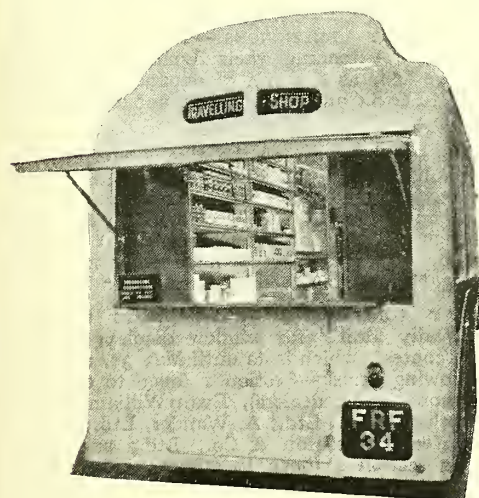
CAMERA FACSIMILE—Enlarged reproduction of Contax camera mounted on London delivery van of Zeiss-Ikon, Ltd.



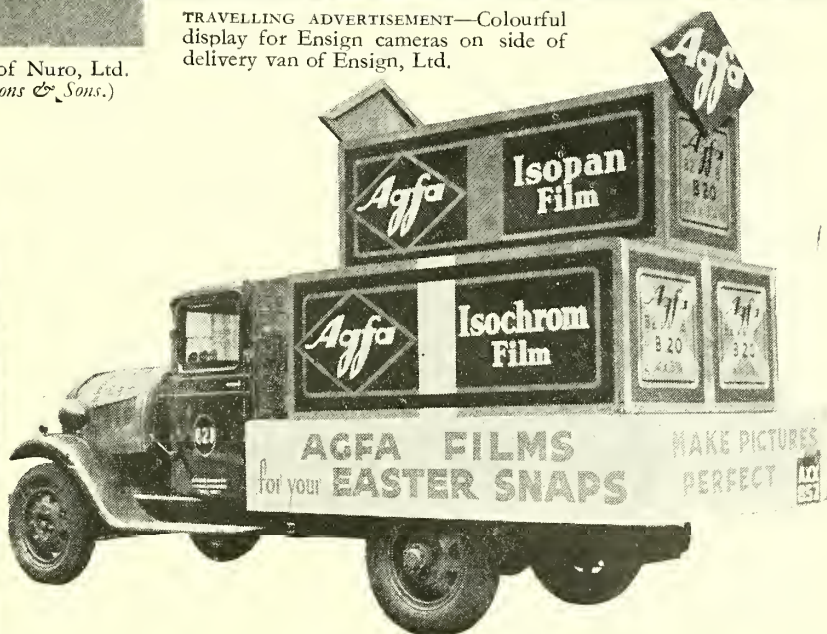
VAN BONNET AND CAB AS CAMERA—Delivery van of Nuro, Ltd. The body represents a film camera. (Built by Salmons & Sons.)



TRAVELLING ADVERTISEMENT—Colourful display for Ensign cameras on side of delivery van of Ensign, Ltd.



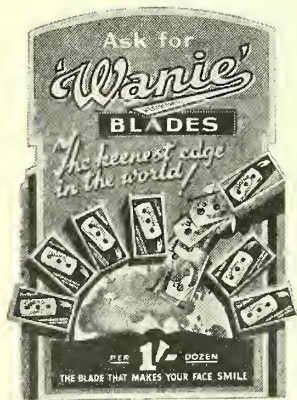
TRAVELLING SHOP—Van fitted out for use as shop by J. H. Jennings & Son, Ltd.



GIANT FILM CARTONS—Display van used by Agfa Photo, Ltd., for their Isopan and Isochrom films. The giant cartons are mounted on a standard chassis.

Trade Notes

WANIE BLADES.—Illustrated on this page is one of the two display sales aids for retailers issued by London & Provincial



Factors, Ltd., 146 Theobalds Road, London, W.C.1, makers of Wanie blades. They carry six packets and 12 packets of one dozen respectively. These display showcards are obtainable on request.

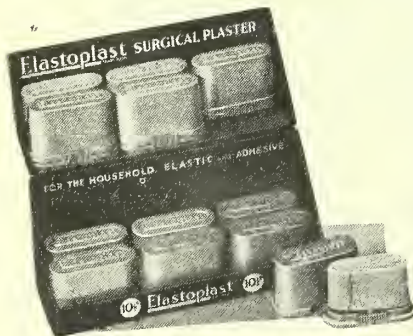
TAR DERMAMENT is a combination of a special type of alcohol-soluble phenolic resin, having analgesic properties, with 6 per cent. of washed crude coal-tar. This product is relatively non-toxic, mildly anaesthetic and exerts a slight vaso-constrictor effect. When painted on the skin the solvent evaporates, leaving a covering of the resin which holds the tar at the place of application.

It is issued in rubber-stoppered vials of 15 and 50 c.c., with camel-hair brush, by Parke, Davis & Co., Beak Street, London, W.1.

VITAMIN PRODUCTS.—The British Drug Houses, Ltd., Graham Street, City Road, N.1, have published an interesting and informative brochure on vitamin products. This brochure, which consists of 44 pages, summarises the work carried out in illustrating the functions of vitamins during the past twenty-five years. Information regarding the B.D.H. vitamin products and their uses, methods of administration and dosage are also included.

EVANS' JOURNAL.—We have received a copy of Evans' journal, publication of which has just been reviewed. Pharmacists of an older generation will no doubt remember the predecessor of this new series with gratitude, since it was one of the pioneer publications which proved of much service to the retailer who was desirous of increasing his medical knowledge. While the new volume is small in size, it is obvious that the traditions will be upheld. The contents include modern conceptions of liver therapy, measles and diphtheria prophylaxis, and a symposium of the literature on sulphanilamide. This journal is published by the Evans Biological Institute, Runcorn, to which address applications should be sent.

ELASTOPLAST SURGICAL PLASTER.—Illustrated on this page is a display stand showing a new packing for Elastoplast plasters



which are now available in moulded containers. This display set forms an attractive counter display unit. Attention may be directed to the Elastocrepe bonus offer, which operates until May 14, details of which will be sent on application to T. J. Smith & Nephew, Ltd., Neptune Street, Hull.

CROOKES' BONUS TERMS.—We have been asked to direct attention to an error which appeared in the advertisement inserted by The Crookes' Laboratories, Park Royal, London, N.W.10, in THE CHEMIST AND DRUGGIST of April 2. The information given under Crookes' zinc cream should read, under discounts, "Ordinary," and, under bonus, "1 per dozen," and not as it appeared.

LIQUID RED SQUILL.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, have introduced a new preparation of liquid red squill for the destruction of rats. According to biological tests, 3 to 5 minims is the lethal dose for a fully-grown rat. The product is issued in 2, 4, 16 and 60 oz. bottles.

ASSIMILABLE SULPHUR.—Viosulful, Ltd., 4-6 Finsbury Court, Finsbury Pavement, London, E.C.2, recently directed attention to assimilable sulphur for internal and external treatment of rheumatism, fibrositis and kindred ailments. There are other products issued by this company, and special discounts are offered to chemists.

SURGICAL CAT-GUT.—G. F. Merson, Ltd., St. John's Hill Works, Edinburgh, 8, have issued a new edition of their illustrated price list of sterile surgical cat-gut and other ligatures and sutures. This price list gives a complete range of the products made by Messrs. Merson, and the illustrations show the products and methods of packing.

EYE-LASH COSMETIC.—Ricil's new water cosmetic with a basis of castor oil has been introduced for assisting the growth of eyelashes. This is a French product packed in a cardboard box complete with brush and mirror, and issued in several colours. The sole distributors are G. Lemoine, Ltd., 129-131 Regent Street, London, W.1.

PAINEX TABLETS.—Clay & Abraham, Ltd., 87 Bold Street, Liverpool, 1, have introduced a new product which they describe as Painex tablets, and these are intended for the relief of pain. The formula is disclosed. The tablets are packed in bottles of one thousand and also in bottles containing 50 tablets.



ADRENAL CORTEX EXTRACT.—An approved adrenal cortex extract for oral administration, described as Adreno-Cortin, has been introduced by Endocrines-Spicer, Ltd., Watford, Herts. This product is biologically standardised and is issued in soft gelatin capsules, each containing 5 minims of extract. Adrenal cortex therapy has been found of value in major and minor adrenal insufficiencies, convalescence, hyperemesis gravidarum, the toxemia of burns and infections, and as an adjuvant in the treatment of hay fever, urticaria, etc. Adreno-Cortin is available in packages of 30 capsules.

CHESEBROUGH FACTORY EXTENSIONS.—The Chesebrough Manufacturing Co. are extending their London factory at Victoria Road, Willesden, as a result of expanding business. The extensions are to cover an area equal to about two-thirds of the present factory.

ERGOT ALKALOIDS.—A brochure on the alkaloids of ergot of rye has been published by J. Flint, Sandoz Products, 134 Wigmore Street, London, W.1. This is a useful, authoritative dissertation on the ergot alkaloids, which have been the subject of much research of recent years. A comprehensive bibliography on the subject is included, and details are given of the ergot products issued by Messrs. Sandoz.

WINDOW DISPLAY CONTEST.—Additional prizes to those offered by the "Daily Mail" for window displays in their "Show and Sell" contest, which lasts until May 31, are being offered by the following firms:—Section 2 (open to chemists, hairdressers and photographic dealers), Evan Williams & Co., Ltd.; F. W. Hampshire & Co., Ltd.; A. Wander, Ltd.; Gillette Industries, Ltd.; Keen, Robinson & Co., Ltd.; and Dufay Chromex, Ltd. In section 1 (open to grocers, bakers, wine merchants, etc.) additional prizes are offered by A. Wander, Ltd., and Keen, Robinson & Co., Ltd., and in section 3 (open to ironmongers, jewellers, electrical goods retailers, etc.) by Ever Ready Co. (Great Britain), Ltd.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1938, p. 302.

(From "The Trade Marks Journal," March 30, 1938)

APPLICATION AMENDMENTS

The specification for "ANALJOL" in Class 3, No. 581,917, by Kaylene, Ltd., has been amended to "medicated inhalants and liniments for human use."

The specifications for "LEGATO" in Classes 3 and 48, Nos. 581,253/255, by H. Legge, have been amended to "medicated preparations for the feet" and "toilet articles and preparations (none being medicated) for the feet," respectively.

(From "The Trade Marks Journal," April 6, 1938)

"ROB ROY" in circle; for photographic chemicals, etc. (1). By Robinson Bros., Ltd., Birmingham Road, Oldbury, Birmingham. 583,786. (Associated.)

"RAYAZONE"; for photographic chemicals (1) and agricultural, horticultural, veterinary and sanitary chemicals (2). By Société des Antiferments, 8 Rue des Gravières, Neuilly-sur-Seine, France. 582,104/412. (Associated.)

"RANGILAX"; for manufacturing chemicals (1) (certain countries excepted). By Ferrango, Ltd., 36 New Broad Street, London, E.C.2. 583,379.

"AGA 8" in circle (numeral "8" disclaimed); for all goods (1). By I.G. Farbenindustrie A.-G., Grüneburgplatz, Frankfurt, Germany. 582,816. (Associated.)

"PHOTOSENSIN"; for fertilisers (2). By Photosensin, Broad Street, Abingdon-on-Thames, Berks. (580,438.)

"CYPEST"; for agricultural and horticultural chemicals (2). By Imperial Chemical Industries, Ltd., Millbank, London, S.W.1. 583,016. (Associated.)

"OSBLO"; for agricultural, horticultural, veterinary and sanitary chemicals (2). By Osmond & Sons, Ltd., Standard Chemical Works, Doughty Road, Grimsby. 583,177.

"CLENPHOS"; for all goods (2). By D. C. Roebuck, Ltd., 1 Field Street, Bradford, Yorkshire. 583,291. (Associated.)

"HORMOPATINE" and "HORMOPROSTINE"; for medicinal chemicals (3). By A. Urvater, 9 Rue du Faubourg Saint-Honoré, Paris, France. 581,780/781. (Associated.)

"EPRESSAN"; for medicinal chemicals (3). By Aktiebolaget Leo, 166 Langvinkelsgatan, Helsingborg, Sweden. 582,234.

"ESODERM"; for skin diseases preparations (3). By Desitin Products, Ltd., 23 College Hill, Upper Thames Street, London, E.C.4. 582,101.

"BASERGIN"; for medicinal chemicals (3). By Chemical Works Formerly Sandoz, 60 Fabrikstrasse, Basle, Switzerland. 582,143. (Associated.)

"STET"; for dental fixatives (3). By Associated (Dental) Products, Ltd., 31A Denmark Road, London, W.13. 583,809. (Associated.)

"AURALYT" in diamond; for ear diseases preparations (3). By Doho Chemical Corporation, 58 Varick Street, New York, U.S.A. 582,680.

"SUNSTAR"; for medicinal chemicals (3). By Joseph Lingford & Son, Ltd., 5 Durham Street, Bishop Auckland, Durham. 582,445.

"GLAZUDENT"; for all goods (3) and (48). By Naamlooze Vennootschap Eau de Cologne Fabrik J. C. Boldoot, Singel, 92, Amsterdam, Holland. 584,014/015. (Associated.)

"K L M" monogram in square; for medicinal chemicals (3). By D. Mawdsley & Co., 4 and 6 Riga Street, Shudehill, Manchester. 584,002.

"INSPIRAX"; for inhalers (11). By Francis Riddell, Ltd., Axtell House, Warwick Street, London, W.1. 582,725.

"THERMORAD"; for surgical instruments, etc. (11). By Thermoray, Ltd., 1 Bucklersbury, London, E.C.4. 584,205.

"AMPLION"; for all goods, excluding deaf aid preparations (11). By Amplion (1932), Ltd., 146 Theobalds Road, London, W.C.1. 582,916. (Associated.)

"P S F CADEX"; for hair waving preparations (48). By Cadex (England), Ltd., 5 Dean Street, London, W.1. B578,750.

"PREFACE"; for perfumes (48). By Pinaud, 6 Rue des Champs, Asnières (Seine), France. 579,961.

"FRENCH CANCAN" (word "French" disclaimed); for perfumery, etc. (48). By E. Daltroff & Cie, 10 rue de la Paix, Paris, France. 582,142.

"CHEMIA"; for all goods (48). By Hazelwood & Sons, Ltd., New Lane, Patricroft, near Manchester. 582,838.

"RUSE"; for perfumes, etc. (48). By Etablissements Rigaud, 8 rue Vivienne, Paris, France. 582,298.

Deaths

CASTELL-EVANS.—On April 12, Mr. Evan Castell-Evans, M.P.S., at 1 Arundel Gardens, Notting Hill, London, W.11, aged sixty-five. The funeral service will take place at 11 a.m. on April 16 at Abbey Road Baptist Church, St. Johns Wood, N.W.

DICKINSON.—Recently, Mr. Jack Chant Dickinson, M.P.S., Randlesdown Road, London, S.E.6. Mr. Dickinson passed the Pharmaceutical Society's Qualifying examination in 1928.

McLENNAN.—At a Bristol nursing home on April 5, Mr. Kenneth John Cable McLennan, M.P.S., director of Rheumogen, Ltd., Edinburgh, Cleveland Place East, Bath, aged fifty-eight. Mr. McLennan was for many years the proprietor of Laird & Son, chemists, Queensferry Street, Edinburgh, and later became a director of Burgoyne, Burbidges & Co., Ltd., London, E.6. Recently, Mr. McLennan has been connected with Hetogen Co., Inc., who are marketing his product Rheumogen under the name of Hetogen in Canada and the United States of America.



MR. J. C. McLENNAN

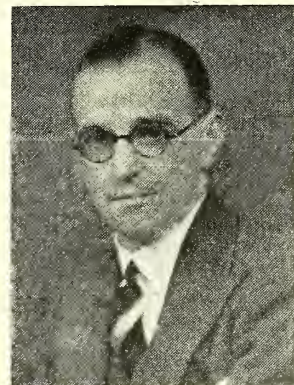
TROUGHTON.—At Croftlands, Westbourne Road, Lancaster, on April 8. Mr. Henry Troughton, chemist and druggist, aged eighty-one. Prior to retirement from business in 1926 Mr. Troughton was in business in Lancaster for nearly fifty years.

Personalities

MR. E. BUTTERWORTH, M.P.S., headed the poll by a large majority at the recent Ross Urban District Council election.

MR. J. C. VINCENT, who for fifty-one years was associated with G. B. Kent & Sons, Ltd., brush manufacturers, London, E.C.1, has retired. Mr. Vincent joined the company in 1887, was appointed a director in 1915, and became managing director in 1922.

DR. JAMES COUTTS, Ph.C., North Middlesex County Hospital, London, N.18, has been appointed pharmacist to St. Bartholomew's Hospital, E.C.1, in succession to Mr. F. W. Searle, who is retiring. Dr. Coutts started his pharmaceutical career as apprentice to Mr. P. M. Duff and qualified from the Royal Technical College, Glasgow, in 1928, having won the Fairchild prize for Scotland earlier in the same year. The following year he passed the Major examination and joined the teaching staff of the School of Pharmacy at the Royal Technical College. Research work carried out during the next three years enabled him to submit a thesis on British species of *Artemisia*, for which he was awarded the Doctorate of Philosophy of the University of Glasgow. His work on this subject is now well known, and he has communicated several papers to the British Pharmaceutical Conference and evening meetings of the Society in Edinburgh. Since his hospital appointment in London in 1933, Dr. Coutts has taken an active part in pharmaceutical affairs, and is a member of the Pharmacy Committees of the British Pharmacopœia and the British Pharmaceutical Codex.



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Information Department

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THE CHEMIST AND DRUGGIST

VOL. CXXVIII

April 16, 1938

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Pharmacy's New Building

WHILE there has been no public announcement relating to the finances of the new building, we understand that a certain amount of concern is evinced in official circles with regard to the rising costs, so much so that a suggestion has been made that appeals for financial aid should be put before the University of London, the Rockefeller trustees and certain firms connected with pharmacy. Further, members of the Pharmaceutical Society may be approached to assist financially in the building of this edifice. The reaction of the trade generally to an appeal for financial support in raising a building for housing departments which continue to spend moneys that could be utilised in order to further the interests of pharmacy will no doubt be watched with interest. If pharmacy has been so reduced that it is essential for organisations not only in this country but overseas to be appealed to for financial assistance then the trade may well ask: To what purpose?

Weather and Trade

DURING the past few months trade, both wholesale and retail, has not been quite up to expectations, at least that is the general impression gained from reports. This alleged falling off in turnover has, in most instances, been attributed to the recent generally unsettled international political situation. The actual facts, as indicated by market quotations, are definite in the cases of the leading speculative commodities, and there is no doubt that these products have suffered extensively. Unfortunately, the downward movements of the values in these instances has, as is usual, been accepted as a guide to trading conditions generally, wholesale and retail. There is, however, practically no connexion between the two classes of business, and it is difficult to understand why, for instance, when the Stock Exchange experiences one of its periodical

shake-outs, or when the markets in some commodities which have been rushed up, on paper, to exceedingly high figures, break, such natural movements are misinterpreted as registering a falling-off in trade generally.

The amount of money in circulation in this country has never been greater than it is to-day; further, there is little doubt that it is spread much wider over the population than was formerly the case, and, in consequence, it is changing hands more often. These, with steadily increasing employment figures, are, we believe, the reliable guides to the state of trade. The volume of retail trade in everyday articles is being well maintained and there is nothing to suggest there has been or will be any deterioration in the spending power of the public. Export trade is undoubtedly difficult, yet the Board of Trade returns continue to show remarkably good figures.

Turning to the drug trade, the winter trade in seasonal medicines and remedies, particularly for coughs and colds, has not been satisfactory. The lack of normal demand for these articles has been due solely to the extremely mild and dry winter and early spring. The manufacturers have not done quite as well as they had expected to do, retailers have stocks which will have to be carried over till next winter, and the wholesale suppliers of the manufacturers' materials report the demand during the past three months has slowed down. Such products as agar required by makers of pastilles and medicated sweets; the sales of anise oil, peppermint oil, menthol, camphor, cod-liver oil, honey and other winter products have all suffered because we have had a winter practically free from epidemics of influenza, colds and coughs. On the other hand, the sales of cosmetics are reported to have been nearly up to summer level throughout the past six months.

The Benzamine Question

THE ruling in the *C. & D. Poisons Guide* that benzamine is not included within the scope of the Poisons List (by virtue of it not being an amino-alcohol esterified with benzoic acid) is causing difficulty owing to the view taken by the Pharmaceutical Society that 4-hydroxy-2:2-trimethyl-piperidine is a secondary amino-alcohol. This official opinion is at variance with the elementary subdivision of organic substances into aliphatic compounds (including alcohols) and aromatic or ring compounds (including piperidine). Piperidine is in effect a reduced (hexa-hydro) pyridine and the following quotation from Perkin and Kipping's "*Organic Chemistry*" (1911 Edition, p. 528) exemplifies the fallacy of regarding pyridine (piperidine) as an amine (and the above piperidine derivative as an amino-alcohol):—

The fact that pyridine is a strong base suggests some relation to the *amines*. It is, however, not a primary amine, because it does not give the carbylamine reaction; nor is it a secondary amine, because it is not acted upon by nitrous acid.

The necessary conclusion that pyridine is a tertiary base led to Körner in 1869 formulating the constitution of pyridine as being a closed chain compound which must be regarded as derived from benzene by the substitution of a tervalent nitrogen atom for one of the CH groups of the benzene ring. The suggestion that benzamine is a poison is thus tantamount to an inversion of chemical nomenclature (by claiming that an aromatic base is a secondary amine). On this basis, phenol would be a secondary alcohol. The real issue is not as to which set of experts on poisons is right, but that chemists in business should not be in doubt as to the status of benzamine in poison law. The solution of this problem should not be a matter of interpretation of the chemical nomenclature of the Poisons List; if benzamine is to be classed as a poison it should be definitely named, as is the case with orthocaine. However, until the Home Office regularises the position by adding benzamine to the Poisons List, it is contrary to customary chemical nomenclature to regard this substance as a poison.

Manufacturers and the C.F. Scheme

THE manufacturer's viewpoint on the Chemists' Friends scheme was put forward by Mr. J. E. Blackwell (superintendent pharmacist, Genatosan, Ltd.) in an address to the Liverpool Chemists' Association on April 5, the president (Mr. John Rae) in the chair. Maximum points of distribution, he said, had always been the goal of sales managers, and the greater the number of distribution points the better the link with advertising. For a manufacturer to create a demand by advertising that could not be satisfied by distributors was unsound and wasteful. Any curtailment of points of distribution was detrimental to the manufacturer unless the smaller number of selling points were sufficiently potent to guarantee at least the same turnover.

Limited Distribution

A perusal of leading opinions on the subject of limited distribution, he continued, showed that there were three basic conditions when limited points of distribution might be of advantage to a manufacturer: first, when the article to be sold was expensive; second, when the commodity was not to be nationally advertised; and third, when the product was technical and could only be adequately sold by specialised salesmen. The speaker felt it was necessary that pharmacists should take steps to ensure that any preparation coming on to the C.F. scheme was such that they could conscientiously recommend it. This might mean that the manufacturers' list would not grow as rapidly as some might wish it to, but it would ensure that the scheme grew solidly. The public would grow to realise that the presence of an article on the C.F. list would indicate its therapeutic respectability, and this would remove from the pharmacist the stigma of being a mere hander out of packed medicines, irrespective of their therapeutic value. Placing a nationally advertised proprietary article on the C.F. List was a step which nationally advertising manufacturers should not take without assuring themselves that retail pharmacists as a body would agree to certain terms. The terms should include a pledge by pharmacists to give co-operation in propaganda regarding technical properties, to guarantee adequate displays and to give professional recommendation of the product. A manufacturer, on joining the C.F. scheme, would find that his distribution points were reduced to one-tenth of the original number. If pharmacists persisted in showing non-C.F. lines, or in pushing "own-name" packs of a similar nature, C.F. manufacturers would have sacrificed 135,000 possible points of distribution and even then be faced with displays of non-C.F. lines. It was in the country districts that the C.F. scheme had operated most hardly against the C.F. manufacturer, because people had been compelled to purchase alternatives in districts where there were no chemists' shops. On the other hand, it had recently been brought to his notice that of all the large stores between Marble Arch and the corner of Tottenham Court Road, London, only one could handle C.F. goods. By "own-name" packed goods bearing the pharmacist's name he did not mean those proprietary medicines which had been the backbone of many businesses—special cough mixtures, ointments, pills, etc., made up from formulas which had been handed down by generations of pharmacists. He would be one of the last to advocate the relinquishing by pharmacists of their own proprietaries, but certain medicinal preparations were put up by so-called packed goods houses on which the chemist's name and address was over-printed. In many cases these proprietaries were imitations of or substitutes for nationally advertised C.F. lines.

Collective Action Essential

If pharmacists persisted in pushing such "own-name" packs there could be only one end to the C.F. manufacturer affected: The eventual loss of business which the manufacturer must suffer would mean that the manufacturer's power to advertise would decline and his non-C.F. competitors would become correspondingly stronger. If pharmacists persisted in pushing "own-name" packs, and accepting bonus window displays of

non-C.F. lines, they would slowly kill their friends in favour of those manufacturers who supported unlimited distribution. "I have no doubt," said the speaker, "that many of you noticed the article in *THE CHEMIST AND DRUGGIST* a few weeks ago on the increase in patent medicine licences which had taken place during the last few years. Speaking from memory, I think that the figure was approximately 35,000. In other words, during the past two years the increase in patent medicine licences is more than double the number of retail pharmacists." It was by fighting collectively rather than individually that pharmacists would be best able to meet the challenge of the hucksters. The sooner pharmacists had a clear-cut line of demarcation between pharmaceutical and non-pharmaceutical windows, the sooner the public would begin to think of them as vendors of something different and, therefore, by implication, better than could be obtained from non-pharmaceutical sources of supply. Such a line of demarcation would, in his opinion, be the first step in the direction of Government recognition of pharmacists in a similar way to the recognition that is given on the Continent. He felt most strongly that any product mentioned in the B.P. or B.P.C. should be obtainable only through pharmaceutical channels.

Another point that gave concern to C.F. manufacturers was the practice of local buying associations. How was it possible, he asked, for a pharmacist to feature and prominently display a preparation of which he was only getting, say, a quarter of a dozen from his buying association? If buying associations were necessary, then C.F. manufacturers felt that pharmacists ought to make an exception of their nationally advertised products and purchase sufficient to make suitable counter and window displays.

Supplies to Non-Chemists

It was difficult, said the speaker, to check the amount of business lost to pharmacy every year by unrestricted selling of proprietary articles. He had in mind a commodity regarding which accurate statistics had been obtained. On an average, each pharmacist in the country supplied 400 of the 2,000 consumed each month. Whence were the other 1,600 customers drawing their supplies? If the C.F. scheme were operated in good faith by both retailer and manufacturer, he was convinced that much of this business could be won for pharmacy. A C.F. manufacturer, by limiting his distribution points and maintaining his national advertising, in addition to supplying show material and giving a good profit, had done everything he could to assist to this end. He had taken risks which an overwhelming number of successful non-C.F. manufacturers considered unreasonable. Was it too much to ask that pharmacists should give their personal recommendation to C.F. lines in preference to others? The greatest incentive which non-C.F. manufacturers could have to limit their sales to pharmacists would be the success of competitors who were on the C.F. List. Non-C.F. manufacturers were constantly "feeling the pulse" of the scheme, and the small number of proprietary medicine manufacturers who had been induced to join the movement was an indication of their opinion of the value of retail pharmacy as a selling force. The successful operation of the C.F. scheme would guarantee the future of pharmacy. Mr. Blackwell said he hesitated to think what would be the results to pharmacy if the C.F. scheme failed. The position would be much worse than before the scheme was inaugurated. Non-C.F. manufacturers would immediately say "We have proved that pharmacy as a selling force can be ignored." The scheme has already got over the "teething stage," and he did not think that even to-day any manufacturer would contemplate introducing a new medicinal product in the United Kingdom except through the C.F. movement. There was one simple little test that every retailer could apply to determine whether the scheme was a success for the manufacturer. He should examine his bought ledger and compare the past two years' entries with the preceding year's entry for all nationally advertised C.F. goods. The result would be a material guide as to the extent to which restriction of sales had benefited individual manufacturers. Following a short discussion, Mr. W. E. Humphreys proposed a vote of thanks, seconded by Mr. G. L. Clubb and supported by Mr. W. J. Tristram.

Exposure Meters

(Concluded from THE CHEMIST AND DRUGGIST, April 9, p. 425)

IN contrast to the optical exposure meter, the photo-electric meter is an objective meter for measuring the amount of light falling on to the sensitive element, and is therefore completely free from the personal errors liable to creep in with an optical meter. This is probably the reason for its present popularity, because with a photo-electric meter sensibly used it should be possible to obtain correctly exposed negatives with hardly any practice. All photo-electric meters contain a light-sensitive cell producing an electric current varying with the amount of light falling on the cell, a screening device for defining the acceptance angle of the cell, and an electric meter which measures the current produced by the cell. The current scale can be calibrated to indicate directly the amount of light received by the cell, which in turn is proportional to the average brightness of the scene filling the acceptance angle of the meter.

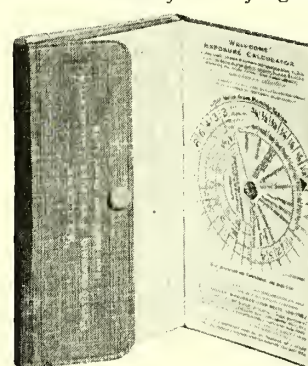
Principle of Photo-Electric Meters

The sensitive element is almost exclusively a selenium barrier-type photo-electric cell. These cells are produced by coating a layer of selenium on to metal and spraying the top of the selenium with a very thin and almost completely transparent layer of gold or platinum. When light falls on to such a cell, by a mechanism not quite fully understood, an electromotive force is set up between the bottom metal and the top gold electrodes, and when these are connected to a measuring instrument of high sensitivity and low resistance the current will be almost proportional to the amount of light falling on to the cell. The sensitivity of the whole arrangement is limited by the condition that the measuring instrument should be sufficiently robust to stand up to the treatment it receives by jumps and jerks when carried in the owner's pockets and actual drops which, however, usually prove fatal. The sensitivity is also limited by the condition that the instrument should be pocketable. The very first Weston meter contained two separate cells side by side with the electric meter in order to increase the sensitivity, but this instrument was hardly pocketable, and all the instruments on the market now are very much smaller. The inaccuracies occurring in photo-electric meters are mainly caused by inaccurate scale calibration or by poor workmanship. It is obvious that a measuring

strong source of light for any length of time, e.g., if the meter is left open in direct sunlight, it will be seen that the indication of the meter will afterwards be too low for a period of possibly up to several hours. While exposure to a strong source of light will usually not damage the meter permanently, it should certainly be avoided carefully in order to obtain correctly exposed negatives. The life of photo-electric meters does not appear to be limited if used carefully. In judging

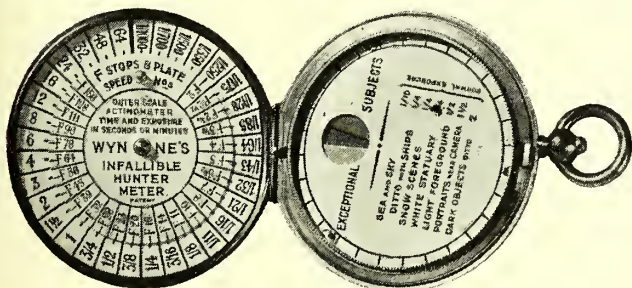


Watkins' Bee (W. H. McKaig)



Wellcome calculator
(Barringtons Wellcome & Co.)

the quality of a meter and in comparing it with others, the following points should be remembered. The workmanship of the meter can usually be judged by its appearance and by testing whether the pointer of the instrument stays in the zero position when the meter is tilted. The sensitivity of the meter is another point easily tested. Different meters should be compared by setting the calculators to a certain speed of the sensitive material and by comparing which meter will allow for the measurement of the longest exposure time for a certain lens aperture. As an example: Meter A might for a deflection of 1 mm. from the zero of the scale indicate an exposure of one minute at $f/8$, while Meter B might give 2.5 minutes. Meter B is the more sensitive one, since it can be used under more adverse lighting conditions. Several of the more sensitive meters employ a double scale in order to allow for a big scale deflection at low intensities and at the same time to accommodate the high intensity region. The sensitivity of the meter can be changed in several ways. It is possible to insert a resistance between the cell and the electric meter for the high intensity region and by pressing a button to cut out this resistance, when the sensitivity is increased. The Sixtus and Ombrux meters are examples of this type. The Avo and the Helios meters employ a continuously variable resistance. The Tempiphot meter achieves the change in sensitivity by inserting a small aperture in front of the light-sensitive cell, thereby reducing the illuminated area of the cell. The sensitivity of the Tempiphot meter can be increased still further by an "amplifier" which can be plugged in and which consists of a second photo-electric cell in parallel with the cell already built in. The Metrovick meter employs an iris diaphragm in front of the cell, which allows for a continuous change in cell illumination over a fairly wide range and a corresponding change in sensitivity of the whole arrangement.



Wynne's Hunter (The Infallible Exposure Meter Co., Ltd.)

instrument of this type has to be very well made. The electric meter consists of a coil of very fine wire rotating in a magnetic field and held in position by two pivots and two hair springs which also serve to lead the current into the coil. This system should be so perfectly balanced that the same reading is obtained for every position in space of the instrument. If it is not, wrong results will be obtained, and, moreover, the pivots will wear out prematurely. Certain meters are offered at such a low price that it seems hardly possible to expect sufficiently good workmanship. The calibration of such meters will also be of low accuracy. These inaccuracies are certainly not inherent in this type of exposure meter. What inherent inaccuracies there are are not sufficient to lead to badly exposed negatives if ordinary care is taken when using the instrument. The photo-electric current varies slightly with temperature, but the effect is so small that it will not matter under any condition the ordinary photographer is liable to meet. A more serious source of inaccuracy is the liability to fatigue inherent in photo-electric cells. If the cell is exposed to a very

Comparative Sensitivity

When comparing the sensitivity of different meters the acceptance angle should be taken into account. It has already been mentioned that the sensitivity of a meter can be pushed up by increasing the acceptance angle, but this has certain disadvantages and a meter with a small acceptance angle and high sensitivity is certainly to be preferred. A clever compromise has been made in several photo-electric meters, where the cell is of oblong shape and set back into a hood of the same shape. With such an arrangement the acceptance angle is very much smaller in a vertical than in a horizontal direction, and in this way the danger of including too much sky is obviated. The change in brightness in an ordinary subject is always much greater when going in a vertical direction from the ground upwards into the sky than in a horizontal direction.

Method of Reading

Another very important point when using a meter is the way in which the primary result, as obtained on the needle of the electric meter, is transferred into the calculator, where it is finally expressed as a series of corresponding lens apertures and exposure times. In the most straightforward system the scale reading is transferred by setting a scale on the calculator. While this process requires a certain amount of attention and is not as quick as some of the methods to be described below, it has the definite advantage that in the construction of the instrument no particular care has to be taken to obtain a definite scale calibration and that therefore the scales can be calibrated by hand and the whole instrument can be made more accurate. This method is applied, for instance, in the Weston, the Electrodrem and the Electro-Bewi meters. There are many ways in which the result as indicated on the electric meter can be transferred into the calculator automatically. The problem is in every case to transform an uneven scale into an even one which can be used in a calculator. One very obvious way is to have two concentric scales, the outer one being divided evenly, the inner one unevenly according to the calibration of the electric meter, and to connect by means of alternately shaded and blank portions the corresponding scale divisions. This has been done in the Tempiphot and the Picoscop meters, in both of which the outer, evenly divided scale can be rotated and forms part of the calculator. Still another system is applied in the Avo and the Helios meters. Here a continuously variable resistance is connected in series with the cell and the electric meter and the reading consists of altering the resistance until the needle has come back to a certain position, when the position of the knob by which the resistance is set can be used as a measure for the light intensity in the calculator. The same arrangement is used in the Metrovick meter, only the place of the resistance is taken by an iris diaphragm in front of the cell. Still another type of setting arrangement was chosen for the Avo Smethurst meter. Here a second mechanical pointer is set to the pointer of the electrical instrument which shows no scale calibration at all. The mechanical pointer is linked to one of the rotating discs of the calculator by means of a kinematic motion which compensates for the unevenness of movement of the pointer as the light increases. In passing, it should be noted that the Avo Smethurst meter is different from any other photo-electric and extinction exposure meter in that it is designed not to measure the amount of light coming from the subject but the illumination on the subject. The cell is covered by means of a piece of opal glass and the instrument is placed side by side with the subject facing the light. The opal is equivalent to an artificial highlight and when exposing according to the Smethurst meter all the highlight will receive the same exposure. While this condition is not necessary for ordinary still photography, it appears to have some justification for sub-standard reversal cinematography, since its purpose is to obtain an even brightness of the highlights in all scenes on the screen, when the film is processed in the ordinary fashion, i.e., without automatic compensation. It will be appreciated how important it is to have all the highlights of the same brightness on the screen.

A very ingenious transferring device is used in the Prinsen meter which in effect does away with the necessity of doing any calculation at all. The pointer of the electrical instrument carries a scale of lens apertures and plays over a scale consisting of a series of curved areas leading up to a scale of exposure times. This scale is set beforehand according to the speed of the material used and the exposure can thus be read immediately off the pointer and the scale.

The setting of the speed on the calculator of a photo-electric meter has very much more meaning than on an extinction meter, although corrections may have to be made, if the taste of the customer differs from that of the manufacturer, and also in cases where conventional speed figures are used on the meter.

Comparison of Methods

At the conclusion it might be interesting to review all the exposure helps available to the amateur from the point of view of the degree to which judgment will be needed, and in regard to which factors, when finding the exposure.

Exposure calculators or tables require the knowledge of the time of the day and time of the year, a judging of the weather condition and the choice of the correct subject on the scale.

The actinometers mentioned briefly at the beginning of this article measure the amount of light falling on to the subject. This eliminates the need for judgment of the lighting conditions, which is often the most difficult factor to judge. It is still necessary to judge how dark is that part of the subject which is the centre of interest and to consider contrast.

The extinction meters and the photo-electric meters measure the amount of light coming from the subject. Since most subjects show an average range of tone values only, the average amount of light coming from the subject is usually a fair indication of the exposure required. With exceptional subjects the tone range will have to be judged. Care should be taken to take the acceptance angle of the meter into account when finding the exposure for subjects of extreme tone range. The extinction meters are liable to errors due to changes of the eyes, which in effect are used as measuring instruments, while the photo-electric meters are free from errors of this kind.

Parliamentary News

MERCURY (IMPORTS)

Mr. Stanley, on April 5, in reply to a question by Mr. Sorensen, gave the following figures:—

Table showing the total quantity and declared value of the imports of mercury into the United Kingdom during the last three years, distinguishing the principal countries from which consigned.

Country from which consigned	Quantity			Declared value		
	1935	1936	1937	1935	1936	1937
	lb.	lb.	lb.	£	£	£
British Countries ...	—	7,500	—	—	1,264	—
Spain ...	1,419,328	1,404,466	2,599,156	209,164	222,009	418,670
Italy ...	65,379	1,520	997,275	9,792	280	169,637
Mexico ...	412,960	271,948	158,704	60,376	43,604	28,520
Other Foreign Countries	19,866	22,096	37,086	2,779	3,486	6,200
Total Imports ...	1,917,533	1,707,530	3,792,221	282,111	270,643	623,027

NOTE: The 1937 figures are provisional.

OPIMUM ALKALOIDS (GHAZIPUR FACTORY)

Mr. Day asked the Under-Secretary of State for India on April 11 the amount of the various alkaloids of opium manufactured at the Government's factory at Ghazipur and/or other Government factories in India during the twelve months ended to the last convenient date, and the amount derived from the sale of the same?

The Under-Secretary of State for India (Lord Stanley): With the hon. Member's permission, I will circulate a statement showing the amounts of the various alkaloids of opium manufactured at the Ghazipur Opium Factory for the year ending September 30, 1937. The profit made on their sale was Rs.47,426 annas 13.

Mr. Day: Is the export of this article to the United Kingdom being suspended except for medical and scientific purposes?

Lord Stanley: I will make inquiries as to the exact regulations regarding these exports, but, as the hon. Member knows, most of them are sold through the High Commissioner to firms in this country. Their imports to this country are strictly controlled by the Home Office licensing system.

Following is the statement:—

Opium Alkaloids manufactured at the Ghazipur Opium Factory between October 1, 1936, and September 30, 1937.

Morphine hydrochloride	Morphine sulphate	Morphine tartrate	Morphine crude	Codeine
lb. oz. 153 7	lb. oz. 11 8	lb. oz. 1 8	lb. oz. 787 8	lb. oz. 210 5

CONTRACEPTIVES (REGULATION) BILL

Mr. Crowder asked the Prime Minister on April 8 whether arrangements could be made to provide special facilities for the passage of the Contraceptives (Regulation) Bill?

The Prime Minister: In view of the state of parliamentary business, I can hold out no hope of special facilities being given for the discussion of this Bill.

Springtime Display Backgrounds

IMPARTING a seasonal "atmosphere" to displays of merchandise may range from including in the window a simple device such as a bunch of flowers to preparing an elaborate set involving the entire window. To the chemist, with his multiplicity of small items, an elaborate one-line display is rarely advisable, except to tie up with an advertising campaign, and to include associated groups of products with an "atmo-

offer a good "matt stock" paper, in size 22 in. by 28 in., and in a range of about seventeen colours. To fix, pasting, with one of the cold water (decorator's) pastes is recommended, but pins, if carefully hidden, will serve. The panels 1 and 3 are designed to have a pale blue background which should be applied first. When this is dry, the various paper cut-outs are applied as indicated by the numbers.

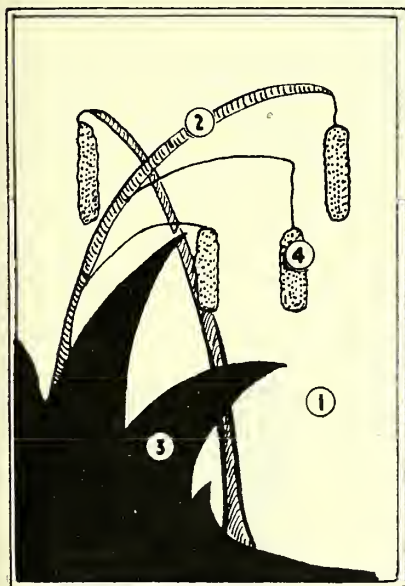


FIG. 1

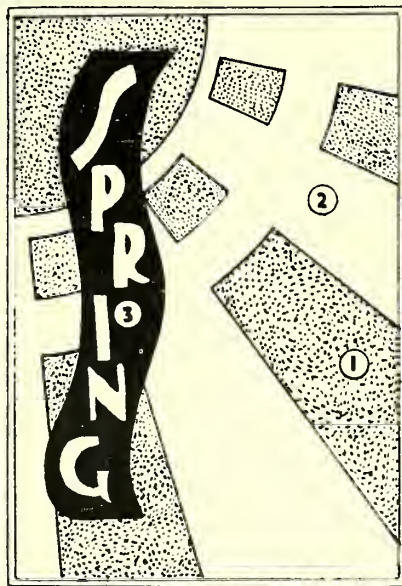


FIG. 2



FIG. 3

sphere" background becomes clearly the best procedure to follow.

Panel Designs

The panel-design suggestions illustrated show how this may be done. Their execution is based on the system of applied paper design mentioned in an article on Scandinavian window display (*C. & D.*, December 11, 1937, p. 688). For the average window, a panel 14 ft. by 18 in. will probably be suitable. Once made from three-ply or fibre-board, this can

The following points may be noted in connexion with the illustrated panels:—

Fig. 1. The stalks should be pale green and the grass a darker shade. The catkins are applied last in brown or yellow.

Fig. 2. The background is yellow or orange, and the pale blue sky is the first cut-out to be applied. If desired, the lettering strip may be on a separate piece of wood slightly raised from the main panel. White lettering on dark blue is suggested.

Fig. 3. The wording for this panel is pasted on in the same colour as the rabbit (black or brown). Two fringes of green

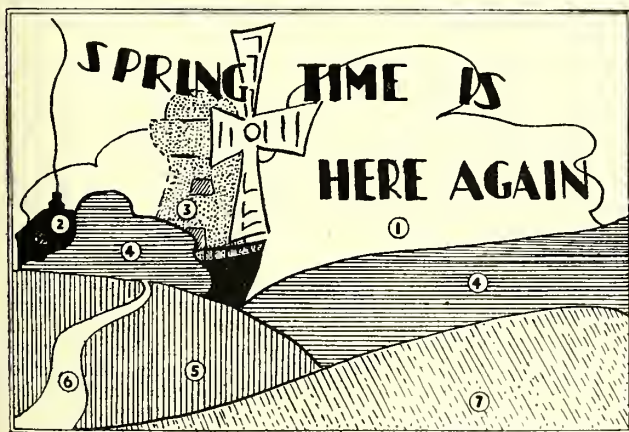


FIG. 4

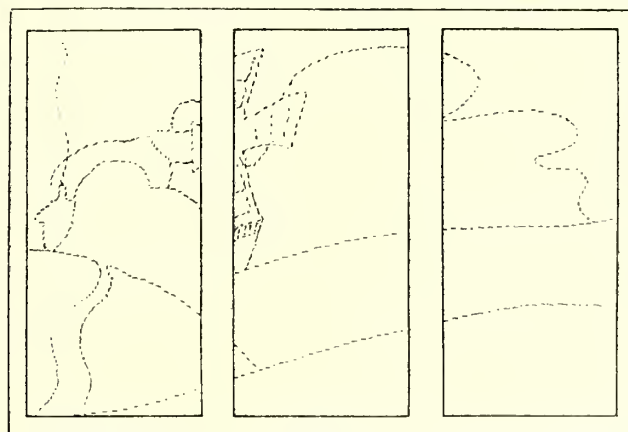


FIG. 5

be used repeatedly. It is suggested that a number of background pieces be prepared, permitting changes to be made at suitable opportunities without loss of time or sales. Stiff cartridge paper is a suitable material. It can be obtained in various colours, while certain suppliers of display necessities

form the grass. If available, a spray of artificial green leaves can take the place of the cut-out spray illustrated. Four methods of using these panels are shown, while others will readily suggest themselves. It is important that the panels should be kept as free as possible from obstruction in order

that it can do its job properly. The background of the window should not be over-crêped, but kept in strict colour harmony with the panel itself, and it goes without saying that

idea of increased length to a window; they can be made from cut-out paper. The third diagram shows the panel placed in the centre, with shelves fitted to it at the back (thus leaving

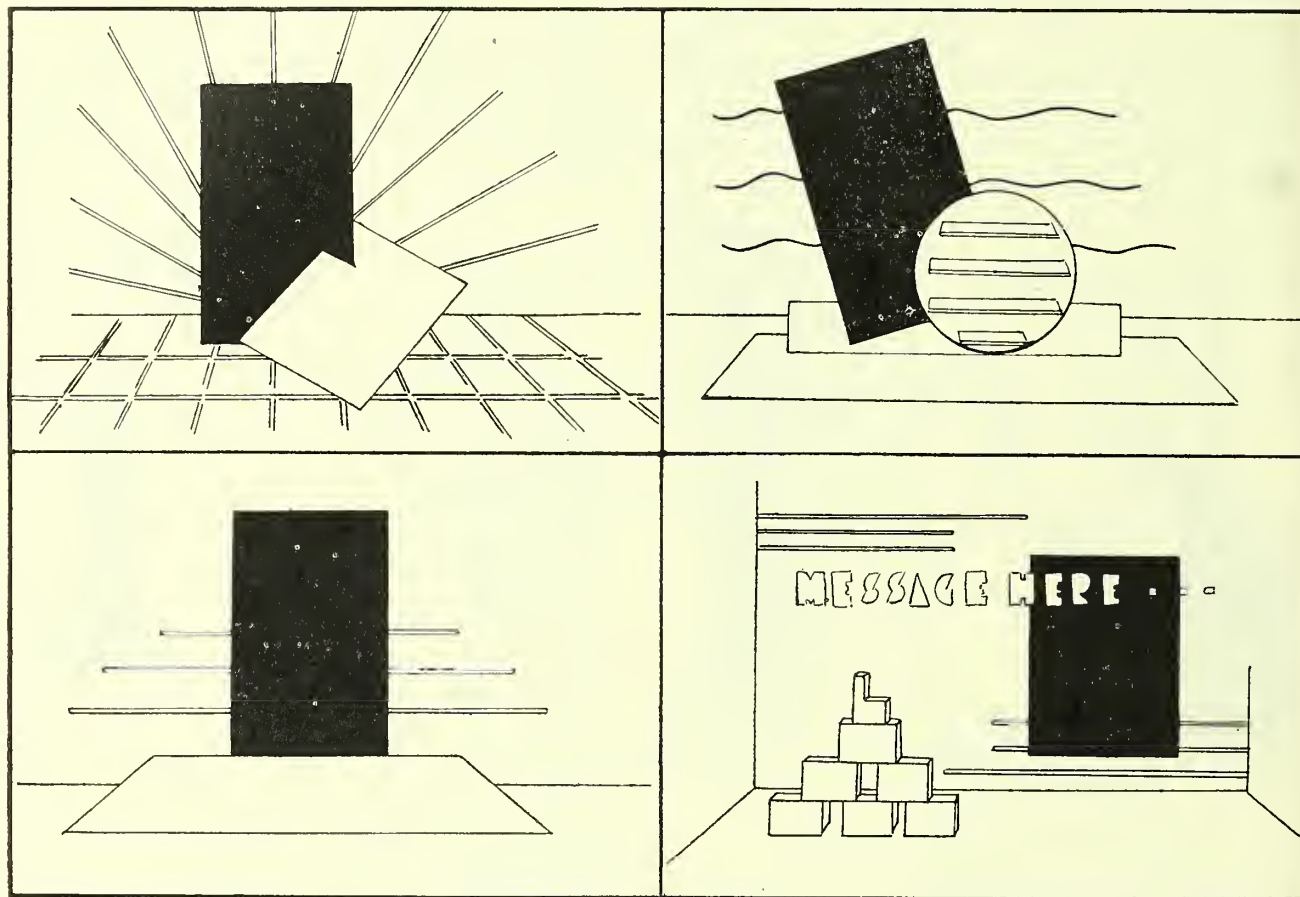


FIG. 6

the goods on show would be rigidly kept to one theme; if the subject is spring, then anything connected with this season can be shown, from cleansing preparations to cameras, but even one hot water bottle, however urgently it "must be sold," will spoil the whole effect.

Fig. 4 is more advanced and lends itself to rather different treatment. Many chemists have a built-in panelled window background, and it is suggested that the panel design be adapted to the fixtures as follows: A scale drawing of the combined panels is made, and on a piece of cardboard the size of each panel the design as it appears on that panel in the sketch is pasted. The cards are then tacked into place, and a complete design is the result.

Fig. 5 gives an idea of the effect on a three-panel back. If used in this way, the wording should be cut from cardboard and tacked to a light wood frame slung from the window well to the front of the display. For this purpose a simple modern block lettering is advisable. The design can be made upon an oblong panel and hung at the back of the display like a picture, occupying roughly a third of the size of the background, the goods being grouped underneath and up each side.

Using the Panels

Fig. 6 illustrates four methods of using the panels in the window. In the first, the panel is placed in an upright position and another of contrasting colour, slotted in to it at an angle, is used for a display of goods placed directly upon it. The crepe-tube "sunray" back concentrates attention on the feature. Tubes can also be used on the floor to direct the eyes to particular items. In the second illustration (at right), a round disc is used in front of the sloping feature panel for displaying the goods and both are connected at the base by a piece of plywood of contrasting colour. Wavy lines give the

the design free). A sloping platform at the base helps to raise the display in front. The final arrangement is with the panel held clear of the floor, enabling a straightforward style of dressing to be followed. It is shown "off centre," with a stack of goods to balance at the base and a row of lettering to complete the design at the top.

Indian Cinchona

CINCHONA production in British India during 1936-37 was reported as "most satisfactory" in the seventy-fifth Annual Report of the Government cinchona plantations and factory in Bengal. The total area under cultivation at the close of the 1937 fiscal year amounted to 2,762 acres. The Mungpoo plantation was extended by over 750,000 healthy young trees and the Munsong plantation was increased by 149 acres. Harvest of Bengal bark totalled 1,452,311 lb., compared with 1,329,320 lb. during the previous year. A total of 1,412,168 lb. of dried bark were treated in the factory during the year, of which 1,223,490 lb. were Bengal bark and the remainder belonged to the Government of India. The quantity of quinine sulphate produced during the year totalled 57,313 lb., of which 7,378 lb. belonged to the Government of India. The total amount of cinchona febrifuge manufactured during the same period was 31,787 lb., of which 4,568 lb. belonged to the Government of India. After making certain deductions, net receipts amounted to 1,071,616 rupees. The total expenditure of the Department, including pensionary charges, was 447,055 rupees. The profits of the year's working amounted to 652,724 rupees, compared with 516,613 rupees in 1935-36.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, April 13

THERE is a better tone in the markets this week, with evidence of a return of confidence and more settled conditions. Business has improved to some little extent but, in the aggregate, it is still rather below normal. Re-export trade in natural products to the Continent continues quite a feature; this business is coming to this market on account of the steadiness and confidence in sterling. Conditions in France are causing some uneasiness as to the future exchange values of the franc. The PHARMACEUTICAL CHEMICALS markets are reported to be doing a routine business. Quotations for EPHEDRINE HYDROCHLORIDE, B.P., are again easier with the buying season now over.

Crude Drugs

There has been more business moving in some commodities during the past week and the tone generally is steadier, with the outlook giving a little more promise. The Continental demand for AGAR continues. The first arrivals of new crop Kobe No. 1 have reached London; the quality is reported to be very good, as is usual with the first shipments. Steady home trade demand for CURAÇAO ALOES at full prices. Rather more business in Japanese CAMPHOR this week. Spot values for CASCARA SAGRADA are being maintained. A further reduction in spot and shipment quotations for West African GINGER is noted. Sudan GUM ACACIA remains very quiet on spot. Little doing in HONEY; quoted unchanged. Fair business in Matto Grosso IPECACUANHA. The demand for Japanese MENTHOL has been chiefly restricted to a small consuming trade; shipment market is steady. PEPPERS are steadier. All descriptions of RHUBARB have been in slow request, but prices are quite steady on spot, with supplies limited. Following the recent sharp declines, RUBBER shows a little recovery and is now steadier. The very small spot stocks of genuine Spanish SAFFRON are firmly held at the recent advances; no reliable shipment offers. SENEGA has not been maintained at former values; new crop is quoted for July-August shipment.

Essential Oils

Reports to hand indicate that business has been a little better during the past week, with more doing in shipment orders. ANISE is quoted slightly easier on spot, with the demand quiet. The Consortium price for new crop BERGAMOT is unchanged. Isolated cheap offers on spot of Brazilian BOIS DE ROSE. Still but little inquiry for CASSIA on spot; inferior quality parcels are stated to be offering at cheap figures. Ceylon CITRONELLA is quoted cheaper for shipment. Fair amount of small-parcel business in CLOVE. Australian EUCALYPTUS is quoted at cheap prices for bulk quantities for shipment. The firmer tone in the shipment market for new crop hand-pressed Sicilian LEMON continues, with quotations again slightly dearer. We have received confirmation of our report published last week to the effect that it has been decided not to institute a Consortium this season. French OLIVE is quoted rather easier, but is steadier and may quickly recover. Very little business moving on spot in French Guinea ORANGE; holders of new crop good quality oil are declining to cut their prices; no shipment offers from the source. Japanese PEPPERMINT has had a rather quiet week; shipment market steady. PETTIGRAIN is again slightly cheaper for shipment.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

Centre	Quoted	Par	April 7	April 13
Amsterdam ...	Fls. to £	12.107	8.96½	8.96
Berlin ...	Mks. to £	20.43	12.35	12.36
Brussels ...	Belgas to £	nominal	29.47	29.50
Copenhagen ...	Kr. to £	18.159	22.40	22.40
Lisbon ...	Esc. to £	110	110½	110½
Madrid ...	Ptas. to £	25.24½	nominal	nominal
Milan ...	Lire to £	92.46	94½	94½
Montreal ...	Dols. to £	4.86½	4.99½	5.00
New York ...	Dols. to £	nominal	4.96	4.97½
Oslo ...	Kr. to £	18.159	19.90	19.90
Paris ...	Fr. to £	124.21	161	161
Prague ...	Kr. to £	164.25	142½	142½
Stockholm ...	Kr. to £	18.150	19.40	19.40
Warsaw ...	Zloty to £	43.38	26½	26½
Zurich ...	Fr. to £	25.2115	21.65	21.63

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

A QUIET tone prevailed during the few days preceding the holidays. Values, on quotation, are being maintained.

ACETANILIDE.—Remains quiet; quoted unchanged: B.P. crystals and powder, 1s. 7d. to 1s. 10½d. per lb., as to quantity.

AMIDOPYRINE.—Convention prices unchanged: crystals, two cwt., 9s. 4d.; one cwt., 9s. 8d.; less than one cwt., 10s. per lb., with powder 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—One cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d. in 1-lb. tins; 1s. 10d. in 8-oz. tins, and 2s. 1d. per lb. in 4-oz. tins.

ASPIRIN.—Makers' and dealers' prices are steady, average business reported: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 3s.; 14 lb., 3s. 1½d.; 7 lb., 3s. 2½d.; 4 lb., 3s. 4½d.; 1 lb., 3s. 7d. per lb. Bulk packing free, net, carriage paid. Contracts, over twelve months, minimum one ton; over six months, less than one ton.

BISMUTH SALTS.—Makers' prices show no change on quotation: carbonate, B.P., not less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; 4 lb., 8s.; less than 4 lb., 8s. 6d. per lb., with rebates on contracts for larger quantities.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

BUTYL CHLORAL HYDRATE.—Market is steady: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CITRIC ACID (B.P. CRYSTALS).—Average business reported: British material quoted at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Market is steady: British material, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

EPHEDRINE.—Business continues mostly limited to a few small orders. Hydrochloride, B.P., quoted from 9s. 9d. for bulk quantities up to 11s. per oz. for small lots. Pure, alkaloid, is quoted at about 15s. per oz., as to quantity.

GALLIC ACID.—Occasional business reported: one cwt., 3s.; 56 lb., 3s. 1d.; smaller parcels, up to 3s. 6d. per lb.

METHYL SALICYLATE.—Makers' quoted prices unchanged, market quiet: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 2½d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers' quotations are irregular: two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, up to 20s. 8d. per lb.

PHENACETIN.—Limited amount of small business, makers' prices steady: small spot business: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. to 3s. per lb., as to quantity.

PHENAZONE.—Market is dull and unsteady: crystals, five cwt., 6s. 9½d.; two cwt., 7s.; one cwt., 7s. 3d.; and less, 7s. 6d. per lb., with powder 2½d. per lb. extra.

PHENOLPHTHALEIN.—Quoted values unchanged: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYLETHYLBARBITURIC ACID.—Dealers are quoting small spot parcels at about 20s. 6d. to 22s. per lb. in 2-lb. bottles.

PHOTOGRAPHIC CHEMICALS.—Home makers' prices continue steady. AMIDOL.—28 lb., 8s.; 14 lb., 8s. 9d.; 7 lb., 9s. 6d., in free 7-lb. tins; under 7 lb., 12s. per lb., in free 1-lb. bottles. CHLORQUINOL.—1-lb. bottles, 21s. per lb. GLYCIN.—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. HYDROQUINONE.—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; in 1-lb. bottles, 6s. 6d. per lb. METOL.—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d.; 3 lb., 11s. 6d.; 1-lb. bottles, 12s. 6d. per lb. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 12s. per cwt.; 28 lb. for 6s. GOLD CHLORIDE.—15-grain tubes, 45s. per doz. MAGNESIUM POWDER.—10s. per lb. PARAMIDOPHENOL HYDROCHLOR.—8s. 6d. per lb. POTASSIUM FERRICYANIDE.—14 lb., 2s. 2d.; 7 lb., 2s. 4d.; 1 lb., 2s. 6d. per lb. POTASSIUM METABISULPHITE.—One cwt., 7½d.; 28 lb., 8d.;

14 lb., 9d.; 7 lb., 11d.; 1 lb., 1s. per lb. PYROGALLIC ACID, CRYST.—28 lb., 7s. 3d.; 14 lb., 8s.; 7 lb., 8s. 9d.; under 7 lb., 9s. 3d. per lb. SODIUM (CARBONATE RECRYST.)—5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt., 56 lb., for 11s. 6d., 28 lb. for 6s. SODIUM HYPOSULPHITE, CUBES, CRYST.—5 cwt., 17s.; 1 cwt., 19s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM SULPHIDE (PURE).—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles and jars free. SODIUM SULPHITE, RECRYST.—One cwt., 21s. 6d. per cwt.; 56 lb. for 13s. 6d.; 28 lb. for 7s.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; dihydrochloride, 3s.; hydrobromide, 2s. 8½d.; dihydrobromide, 3s.; valerianate, 3s.; hydrophosphite, 4s.; alkaloid, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—The home makers' scale of prices is as follows: one cwt., 5s. 5d.; 56 lb., 5s. 6d.; 28 lb., 5s. 7d.; 14 lb., 5s. 9d.; 7 lb., 6s.; smaller quantities, up to 7s. per lb.

SALICYLIC ACID (B.P.).—Makers' quoted prices are unchanged: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 10d.; 14 lb., 1s. 11½d.; 7 lb., 2s. 0½d.; 4 lb., 2s. 2½d. per lb.

SALOL.—Spot quotations are keen on a slow market at from 2s. 3d. to 2s. 6d. per lb., as to quantity.

SANTONIN.—Practically nothing doing except odd small parcel business. Nominally quoted at £15 per kilo., with sellers of bulk quantities at about £11 10s. per kilo.

SODIUM BENZOATE.—Competitive quotations, business fair: bulk quantities, 1s. 6d.; smaller parcels, 1s. 7d. up to 2s. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Convention scales of prices are unchanged: spot, one cwt., 11s.; 28 lb., 11s. 3d.; 14 lb., 11s. 6d.; 7 lb., 11s. 9d.; smaller parcels, up to 12s. 3d. per lb.

SODIUM SALICYLATE (B.P.).—Business quiet; makers' quotations maintained: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Values are maintained: British makers quote at 1s. 1½d. per lb., less 5 per cent. discount, dealers offering foreign materials at competitive prices.

Crude Drugs, etc.

AGAR.—Fair Continental trade but small home consuming demand. Quoted unchanged for shipment: spot, Kobe, No. 1, 3s. to 3s. 1½d.; No. 2, 2s. 10½d. to 3s. Yokohama, No. 1, 2s. 10½d. per lb., shipment; Kobe, No. 1, April-May, 2s. 6½d.; July-August, 2s. 7½d.; No. 2, April-May, 2s. 4½d.; Yokohama, No. 1, 2s. 4½d. per lb., c.i.f.

U.S.A. imports during 1937 totalled 704,000 lb. valued at \$418,000. Shipments were almost entirely from Japan. Arrivals in former years were: 1936, 625,000 lb. (\$275,000); 1935, 451,000 lb. (\$162,000); 1934, 465,000 lb. (\$156,000); 1933, 641,000 lb. (\$161,000) and 1932, 480,000 lb. (\$185,000).

ALOES.—Fair demand for Curaçao on spot at full prices. Cape, spot, 63s. to 64s.; shipment, about 62s. 6d. per cwt., c.i.f. Curaçao, spot, now quoted from 138s. to 150s. per cwt., as to quality. No shipment offers from the source.

ANTIMONY.—Chinese crude is cheaper: Chinese, crude, spot, £44; shipment, April-May, £37 10s., c.i.f.; English regulus, £81 to £82 per ton, ex store.

ARNICA FLOWERS.—Dealers are offering small spot parcels at about 1s. 3d. per lb., ex store.

BALSAMS.—Quoted unchanged, market quiet: *Tolu*, 1s. 8d. to 1s. 9d.; *Canada*, small lots available at about 7s. 4½d. to 7s. 6d.; shipment, 7s. 6d.; *Copaiba*, Para, 1s. 9d.; B.P., nominal; Peru, 4s. 6d. per lb. spot.

BARBASCO ROOT.—Some Peruvian is available on spot, testing 7.2 per cent. rotenone, at 9d. per lb., ex store.

BELLADONNA.—Limited spot demand, with root quoted at about 60s. per cwt., ex store.

BENZOIN.—Sumatra is offering on spot from 70s. to 95s. per cwt., as to quality. Siam, medium almonds, £26; bean and pea, £22; pea, £20; grain, £15 per cwt.

BUCHU.—A few spot sales with rounds from 1s. 7d. to 1s. 9d. as to quality, in bales. Shipment is maintained at 1s. 5d. per lb., c.i.f.

CAMPHOR.—Rather more business moving on spot: Japanese monopoly BB grade is £8 per 100 lb.: Japanese, spot, tablets, 2s. 6½d.; powder, 2s. 3d.; slabs, 2s. 2½d. per lb., ex store; shipment, tablets, 2s. 3d.; powder, 2s. 1d.; slabs, 2s. 0½d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz. and ¾ oz., 3s. 6d. per lb.

CANTHARIDES.—Usual small spot business: Chinese, spot, 2s. 1d. to 2s. 2d. per lb., as to quantity; shipment, 1s. 7d. per lb., c.i.f.

CARDAMOMS.—Market remains dull. Aleppy greens are again slightly cheaper: Aleppy, green, spot, about 3s. 5d.; shipment, 2s. 2d. for f.a.q. the season and 2s. 4d. for f.a.q. Bombay seed, spot, 4s. 3d.; shipment, 3s. 4d., c.i.f. Mangalore seed, spot, 3s. 9d.; shipment, 3s. per lb., c.i.f.

CASCARA SAGRADA.—Routine consuming trade reported at steady figures: a speculative quotation for 1938 peel is on the market, the figure being 42s. 6d. per cwt., c.i.f.; 1937 peel, 54s. to 55s.; old peel, 65s. to 70s. per cwt., ex store.

CLOVES.—Values are fully maintained, business quiet: Zanzibar, spot, 8½d.; shipment, April-May, 8d. per lb., c.i.f. Madagascar, in bond, 7d.; shipment, April-May, 6½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended April 9 were *nil* and the deliveries 104, leaving a stock of 936. From January 1 to date the landings of Zanzibar have been 471 and the deliveries 604. Landings of Madagascar for the week ended April 9 were *nil*, and the deliveries 147, leaving a stock of 1,353. From January 1 to date the landings of Madagascar have been 345 and the deliveries 1,082 packages.

COCONUT (DESICCATED).—Values show some recovery, market steadier: spot, fine, 17s. 6d.; medium, 17s. per cwt.; shipment, halves, April, 15s. 9d.; May-June, 16s. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market remains dull and rather easy: Finest Lofoten steam refined non-freezing medicinal oil, 89s. to 90s. per barrel, c.i.f. London. Small lots, on spot, about 132s. 6d. per barrel, ex store, duty paid. British finest medicinal oil, 115s. per 25-gallon drum, delivered U.K., with rebates for 25 or more drums. Lofoten fishing results to April 9: 118,900 tons of cod and 54,740 hectol. of oil, compared with 119,027 tons of cod and 63,234 hectol. of oil on the same date in 1937, and 80,951 tons of cod and 43,044 hectol. of oil in 1936.

COLCHICUM.—Dealers' prices for small spot parcels range from 50s. to 52s. 6d. per cwt., ex store.

COLOCYNTH.—Dealers' prices for good white pulp are steady from 1s. to 1s. 2d. per lb., as to quantity.

ERGOT.—Market has been quiet. Old crop Portuguese has been offered for shipment down to 3s. 6d., c.i.f. Spot holders have taken down to 3s. 9d. to 3s. 10d. per lb., ex store.

EPHEDRA HERB.—Some Chinese is being quoted for June shipment at about 39s. per cwt., c.i.f. No offers for prompt shipment.

GAMBOGE.—Some fair to good Siam pipe is available on spot at about £13 10s. per cwt., ex store.

GENTIAN.—Occasional business on spot, with good clean French root quoted at 42s. 6d. per cwt., ex store.

GINGER.—Quotations for West African are again easier: West African, spot, 28s. 6d.; shipment, for arrival, 24s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 82s. 6d. to 85s.; small grinding, in bags, 60s. to 62s. 6d. per cwt., c.i.f.

GUM ACACIA.—Business remains slow: Kordofan, cleaned sorts, spot, 40s.; shipment, 37s. per cwt., c.i.f.

Exports from the Sudan during January-February totalled 4,503 tons, compared with 4,825 tons in the corresponding months of 1937. Arrivals in the first two months of this year in the United Kingdom amounted to 900 tons, against 806 tons in January-February, 1937.

HONEY.—Market has been quiet, quoted unchanged: Jamaican, dark manufacturing, 31s. up to 45s. for pale set. Californian is quoted 48s. to 50s. for white clover. Canadian is mentioned at 52s. 6d. per cwt., ex store.

HYDRASTIS.—Not much inquiry, market steady: spot, 15s. to 15s. 3d.; shipment, 15s. per lb., c.i.f.

IPECACUANHA.—Fair demand for Matto Grosso, with some inquiry for export. Matto Grosso, B.P., spot, about 7s. 6d.; shipment, quoted at 6s. 9d. per lb., c.i.f., with bids of 6s. 6d. solicited. Somewhat inferior quality root would be at cheaper prices on spot.

MENTHOL.—A moderate consuming trade: K/S brands, 12s. 6d. to 12s. 7½d.; afloat, 10s. 10½d. to 11s., c.i.f., with buyers at 10s. 6d., c.i.f. Japanese shippers quote K/S, April-May, 11s., and other brands at 10s. 10d., c.i.f. Chinese, spot, 12s. 3d.; shipment, 10s. 9d. per lb., c.i.f.

MERCURY.—The quotation from first-hands in London is maintained and given only in American dollars: f.o.b. Continent and ex store, London, 64 dollars per bottle.

OPIMUM.—Steady on a quiet market: Turkish, original cases of 170 lb., 13 per cent., 1s. 1d. Iranian, 12 per cent., 1s. 1d. per unit, landed and duty paid.

PEPPER.—Values are about level on the week; market steady: Lampung, in bond, 2½d.; shipment, April-June, 2½d.; May-July, 2½d.; August-October, 2½d., c.i.f. Tellicherry, spot, 4d.; shipment, April-May, 3s. 6d., c.i.f. Aleppy, spot, 3½d.; shipment, April-May, 3s. 6d., c.i.f. White Muntok, in bond, 3½d.; shipment, May-July, 3½d.; August-October, 3½d., c.i.f. London Terminal Market: Black, April, 2½d.; May, 2½d.; July, 2½d.; October, 2½d. White, April, 3½d.; May, 3½d.; July, 4d.; October, 4½d. per lb.

PIMENTO.—Quiet with quoted values about steady: spot, 7½d. per lb.; shipment, April-May, 67s. 6d. per cwt., c.i.f.

RHUBARB.—With stocks limited spot values are quite steady, business quiet: spot, Shensi, best quality, 4s. 9d. to 5s. 3d.; old very slightly wormy, 3s. 9d. to 4s. 3d.; pickings, about 4s. per lb.; rough round, 2s. 4½d. to 2s. 7d. per lb., as to quality; shipment, ordinary quality, 1s. 11d. per lb., c.i.f.

RUBBER.—Values show slight recovery and the market is steadier. Standard ribbed smoked sheet, spot, 5½d.; April, 5½d.; May, 5½d.; June, 5½d.; July-September, 6d.; October-December, 6½d. per lb.

SAFFRON.—Continues in very short supply with holders of genuine Spanish wanting about 82s. 6d. to 85s. per lb., ex store, as to quantity. No reliable shipment offers.

SEEDS.—**ANISE.**—Spot, duty paid, Spanish, 62s. 6d.; Bulgarian, 41s.; Syrian, 40s. **CANARY.**—Market quiet, all prices quoted are duty paid: Mazagan, 17s. 9d.; Plate, 16s. 9d.; Turkish, 16s. 6d.; Spanish, 25s. to 37s. 6d. **CARAWAY.**—Dutch, 33s. 6d. spot duty paid, 28s. 9d. quoted f.o.b. Holland. **CORIANDER.**—Morocco on spot is offered at 22s. duty paid and 20s. in bond. No business passing at these prices. **CUMIN.**—Spot, Malta, 41s., duty free; Morocco, 39s., duty paid. **FENUGREEK.**—Morocco, 13s. 6d. spot, duty paid. **MUSTARD.**—English, 19s. 6d. to 28s., according to quality.

SENEGA.—Spot is a trifle cheaper, market quiet: spot, 2s. 4½d. to 2s. 5d.; shipment, new crop, July-August, 2s. 3d. per lb., c.i.f.

SHELLAC.—At level values on the week the market is steadier: spot, standard TN orange, 40s. 6d. to 43s. 6d.; fine orange, 57s. 6d. to 110s.; pure button, 55s. to 60s. per cwt. For delivery, TN, May, 41s.; August, 42s. 3d. For arrival, TN, May-June, 38s. 6d. per cwt., c.i.f.

TRAGACANTH.—Quite a nice business is reported, particularly in the medium white grades ranging from £35 to £55 per cwt.

TURMERIC.—Little business moving with quoted values about unchanged: Madras finger, spot, 29s.; shipment, prompt, 23s.; new crop, May, 21s. 6d. per cwt., c.i.f. Rajapore, shipment, 23s. 6d. per cwt., c.i.f.

VALERIAN ROOT.—Dealers are quoting spot root at about 37s. 6d. per cwt., ex store.

WAXES.—**BEE'S.**—These products continue in slow demand: Calcutta, bleached, spot, 132s. 6d.; shipment, April-May, 125s., c.i.f.; ordinary quality, spot, 107s.; shipment, April-May, 102s. 6d. per cwt., c.i.f. Benguella, in bond, 102s. 6d.; shipment, April-May, origin, 92s. 6d., c.i.f. Conakry, spot, 102s. 6d.; shipment, April-May, 92s. 6d., c.i.f. Dar-es-Salaam, spot, 110s.; shipment, April-May, 102s., c.i.f. **CARNAUBA.**—Values about maintained, business quiet: fatty, grey, spot, 149s.; afloat, 145s.; shipment, April-May, 140s., c.i.f. Chalky, grey, spot, 149s.; afloat, 145s.; shipment, April-May, 140s., c.i.f. **Primeira**, spot, good quality, 195s.; afloat, 185s.; shipment, April-May, 175s., c.i.f. **Mediana**, spot, 185s.; shipment, 170s. per cwt., c.i.f.

Essential and Expressed Oils, etc.

RATHER more business reported to have been transacted during the past week. Sicilian hand-pressed lemon is again rather firmer. Japanese peppermint has been quiet.

ALMOND.—Keen quotations continue to be reported for quantities: English made, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. per lb.; foreign, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. per lb.; French bitter, 6s. to 6s. 3d. per lb.

ANISE (STAR).—Not much life in the market: spot, leads, 4s. 7d.; tins, 4s. 7½d.; drums, 3s. 11d. per lb., ex store; shipment, tins, 3s. 3½d.; drums, 3s. 2d. per lb., c.i.f.

AVOCADO PEAR.—Californian oil continues to be quoted from 47s. to 54s. per gallon, as to quantity, ex store.

BERGAMOT.—The Consortium price shows no change, with importers quoting about 14s. 9d. per lb., c.i.f., for quantities. New crop oil on spot would be about 15s. to 15s. 3d. per lb., and blended oils are listed from about 14s. per lb. We are advised that the Consortium are the sole shippers of this oil to all destinations. Importers may place their orders with shippers at the source, but the latter must pass them on to the Consortium, who put the goods on board the outgoing steamer and hand the relative documents to the shipper.

BOIS DE ROSE.—Business remains quiet: Brazilian oil at about 5s. 6d. in drums, and smaller quantities up to 6s. 3d. per lb.

CAJUPUT.—Fairly steady, with occasional inquiry: B.P., 2s. to 2s. 4½d. per lb., as to quantity, ex store.

CANANGA.—Continues in quiet demand on a competitive market: spot, about 5s. 1½d., with smaller parcels up to 5s. 6d. per lb.; shipment, 4s. 8d. per lb., c.i.f.

CARAWAY.—Very little interest in this article: Dutch rectified, 7s. 3d.; crude, 6s. 9d. per lb., landed and duty paid.

CASSIA.—Spot supplies are offered keenly, but the demand remains quiet: spot, good quality, in leads, 3s. 5d.; off quality, 3s. 2d. to 3s. 3d.; shipment, leads, 3s. 1½d.; drums, 2s. 11d. per lb., c.i.f.

CEDARWOOD.—Quotations are fairly steady, business quiet: African, in drums, 11½d.; smaller packages, up to 1s. 3d. per lb. American, in drums, 11½d.; smaller packages, up to 1s. 3d. per lb.

CINNAMON LEAF.—Ceylon oil is now quoted for shipment at about 2s. 5d., c.i.f., in drums.

CITRONELLA.—Shipment markets are dull and rather easier: Ceylon, spot, drums, 1s. 5½d. to 1s. 6d.; smaller parcels, up to 1s. 9d.; shipment, drums, 1s. 3½d. per lb., c.i.f. Java, spot, drums, 1s. 11d. to 2s.; smaller parcels, up to 2s. 3d.; shipment, drums, about 1s. 5½d. per lb., c.i.f.

CLOVE.—A little more spot business reported: Madagascar, spot, drums, 3s. 3d. per lb., for small parcels, up to 3s. 9d. per lb.; shipment, 2s. 5d. per lb., c.i.f., in drums. English-made oil is quoted

in bulk quantities at about 4s. 7½d. and small lots up to 4s. 10½d. per lb.

EUCALYPTUS.—The demand, as is usual at this time of the year, is quiet. Shipment quotations for 70 to 75 per cent. oil are keen: Australian, 70 to 75 per cent., tins, 1s. 5½d. to 1s. 6½d.; drums, 1s. 5d.; 80 to 85 per cent., drums, 1s. 9½d. per lb., landed; higher prices for small lots on spot. Shipment, 70 to 75 per cent., tins, 1s. 3½d.; drums, 1s. 2½d.; 80 to 85 per cent., 1s. 6½d. per lb., c.i.f.

LEMON.—Shipment quotations for hand-pressed Sicilian oil are again slightly dearer, and range from 10s. 3d. to 10s. 6d. per lb., c.i.f., as to brand. A moderate business is recorded. Spot quotations vary as to quality of the oil from about 9s. 6d. to 11s. per lb. ex store. Californian distilled, regular quality, 6s. 4d. per lb., landed, in small drums.

OLIVE.—Market is now quoted slightly cheaper, with a fair business passing: 1 per cent., 5s. 8d.; 2 per cent., 5s. 6d. per gallon in 45/50-gallon drums. French, edible quality, 73s. 6d. for cases of 10 one-gallon tins and 77s. 6d. for 20 half-gallon tins; 6s. per gallon in 50-gallon drums.

ORANGE.—Little business in French Guinea oil, with good quality from 3s. 4½d. for drums and from 3s. 7½d. to 3s. 10½d. for lots of re-packed oil. No shipment offers, but oil in bond is available at about 2s. 11d. per lb., c.i.f. Californian, spot, one case, 4s. 6d.; two or more cases, 4s. 3½d.; large drums, not quoted, per lb., landed; small drums, 4s. 2d.

PALMAROSA.—Market is steady at last week's better prices: spot, about 7s. 7½d. for drums; shipment, 6s. 9d. per lb., c.i.f.

PATCHOULI.—Occasional small spot inquiry, otherwise market is dull: Singapore, about 14s. 4½d.; shipment, 13s. 4½d. per lb., c.i.f. Seychelles, 11s. 4½d.; shipment, about 10s. 7½d. per lb., c.i.f.

PEPPERMINT.—The Japanese product has been in quiet demand and is steady as quoted: spot, 4s. 5d. to 4s. 6d., as to brand and seller. Afloat, 4s. 3d. to 4s. 4d., c.i.f. Japanese shippers quote 4s. 3½d. to 4s. 4½d., c.i.f., as to position. Speculative business negligible. American natural oil, in drums, is dull; shipment is reported quite steady at 2 dollars to 2 dollars 15 cents per lb., c.i.f., as to brand.

PETITGRAIN.—Quoted unchanged, business of small account: spot, cases, 4s. 1d.; shipment, 3s. 4½d. per lb., c.i.f.

RAISIN SEED.—Spot supplies of Californian are quoted on spot from 2s. 4d. to 2s. 6d. per lb., ex store, according to quantity.

ROSEMARY.—Spot holders are maintaining their prices for genuine Spanish oil from 3s. up to 3s. 7½d. per lb., as to quality and quantity. No shipment offers from the source.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, continues steady at 20s. 6d. per lb. Genuine East Indian, produced outside the province of Mysore, 18s. 3d. to 18s. 6d. per lb., c.i.f., in bulk quantities. English-made West Indian, 7s. 3d. per lb. Australian, steady at 15s. 3d. per lb., for 7-lb. tins; one case at 14s. 9d. and five cases at 14s. 6d. per lb.

SPIKE.—There appears to be an absence of offers from the source: spot holders of genuine Spanish oil of good quality are keeping their quotations steady at about 5s. 6d. to 6s. per lb. Blended oils at cheaper prices.

WORMSEED.—Business has been quiet: U.S.P. oil, spot, 11s. to 11s. 3d.; shipment, 10s. 6d. per lb., c.i.f.

WORLD MINERAL INDUSTRIES—No. 16

Uranium Minerals

THE following table of world production is given in a Statistical Summary of production and exports of the world's mineral industries, published by the Imperial Institute, London, S.W.1 (price 7s. 6d.):—

Producing Country	1934	1935	1936
	Cwt.	Cwt.	Cwt.
BRITISH EMPIRE			
Canada	(b)	(b)	(b)
FOREIGN COUNTRIES			
Czechoslovakia (U ₃ O ₈) ...	236	311	316
Portugal (U ₃ O ₈)	158	23	211
Belgian Congo	209	250	(a)
United States (U ₃ O ₈) ...	70	232	189

Uranium minerals are also produced in Russia.

(a) Information not available.

(b) During 1934, 3,000 mgrms. of radium of 98 per cent. average concentration and 27,000 lb. of uranium salts were produced.

Commercial Notes

ARGENTINE CASEIN EXPORTS.—Shipments for the period January-September 1937, with figures for the corresponding period for 1936, were as follows:—

Destination	First nine months		Country	First nine months	
	1936	1937		1936	1937
	Metric tons			Metric tons	
Germany ...	6,100	3,235	Sweden ...	391	530
United Kingdom ...	2,895	2,568	Finland ...	423	530
Japan ...	577	1,990	Netherlands ...	507	391
United States ...	2,308	1,408	Others ...	1,663	1,754
				14,864	12,406

The figures for 1937 include 2,661 tons of unground casein, the bulk of which went to Germany.

U.S.A. EPHEDRA HERB IMPORTS.—Imports amounted to 49,990 lb. valued at \$2,387 in December, 44,541 lb. coming from Japan and the rest from China—bringing the 1937 total to 788,240 lb. valued at \$21,740. In 1936 imports aggregated 1,000,250 lb. and in 1935, 1,948,000 lb. The consignment received from Japan in December was the second from that country in recent months—another totalling 33,000 lb. arrived in October.

DUTCH CINCHONA IMPORTS.—Imports of cinchona bark into the Netherlands from the Netherlands Indies aggregated 6,877 metric tons in 1937, against 6,507 tons during the preceding year. Assuming the quinine content to have been 7 per cent., imports in 1937 represented the equivalent of 481,390 kilog. of quinine sulphate, or about 58.8 per cent. of the 1936 export quota for Netherlands Indies, which is understood to have been fixed at 818,500 kilog. The 1937 quota was finally fixed at 667,000 kilog.

KENYA PYRETHRUM EXPORTS.—Exports, which increased from 206 long tons in 1935 to 1,165 long tons in 1936, declined in 1937 to 947 tons. The exports to the United States, the principal buyer, totalled 735 tons in 1937, as compared with 1,055 in 1936. The area planted to pyrethrum has been extended considerably, and it is anticipated that 1938 exports will exceed those of 1937 by 50 per cent.

BRAZILIAN CARNAUBA WAX EXPORTS.—The estimated production of wax in 1937 was 9,500 tons. Exports in 1936 totalled 8,774 tons valued at 97,526 contos. Exports for the first nine months of 1937 amounted to 6,353 tons valued at 68,630 contos.

GERMAN CHLOROFORM TRADE.—Imports and exports of chloroform and chloral hydrate for the past eight years were as follows:—

	Imports		Exports	
	Metric tons	1,000 marks	Metric tons	1,000 marks
1930 ...	2.8	5	264	674
1931 ...	3.1	9	256	624
1932 ...	0.7	2	210	511
1933 ...	3.7	10	183	448
1934 ...	26.7	40	149	318
1935 ...	3.2	7	193	364
1936 ...	1.7	8	185	331
1937 ...	1.2	4	179	308

BRAZILIAN IPECACUANHA EXPORTS.—Bahia exported 182 bales of root last year, against 249 bales in 1936. Shipments for 1936 and 1937 were as follows:—

Destination	1936	1937
	Weight (Kilog.)	Weight (Kilog.)
Germany ...	9,245	5,599
United States ...	1,465	3,650
England ...	1,458	—
Belgium ...	536	729
Total ...	12,704	9,978

JAPANESE IODINE EXPORTS.—The Japanese Department of Commerce and Industry has gazetted the inclusion of iodine and iodine compounds in the list of important export articles in accordance with Article 9 of the Trade Association Law. This step has been taken as a result of the working arrangement concluded by Japanese traders with the Chilean Saltpetre and Iodine Sales Association on the occasion of the visit of the Chilean Business Mission to Japan last summer. Japan is to restrict her exports in and after July. Japan exported only 22,264 kilog. in 1936, though her exports in 1933 reached 104,414 kilog.

MYSORE SANDALWOOD EXPORTS.—Shipments through the Madras Presidency, during the periods specified, were:—

	Sandalwood				Sandalwood Oil			
	Year ended March, 1937		April-Dec., 1937		Year ended March, 1937		April-Dec., 1937	
	Tons	Rupees	Tons	Rupees	Lb.	Rupees	Lb.	Rupees
United States ...	422	449,048	401	400,000	4,544	29,617	4,860	46,999
Japan ...	31	77,424	14	11,500	37,865	437,197	12,790	146,368
China ...	—	—	—	—	1,553	18,570	4,160	48,691
United Kingdom ...	8	8,000	7	6,880	1,200	12,900	375	2,500
France ...	2	2,790	—	120	—	—	240	2,500
All other ...	—	166	9	8,236	470	3,979	804	8,872
Total ...	463	537,428	431	426,736	45,632	502,263	23,169	255,930

U.S.A. IMPORTS OF FRENCH ESSENTIAL OILS, ETC.—Details of imports of consignments from French ports for the past two years were:—

Product	1936		1937	
	Lb.	\$	Lb.	\$
Geranium ...	25,431	112,238	15,890	62,495
Lavender ...	117,815	400,639	64,613	184,331
Miscellaneous essential oils ...	81,092	214,947	119,409	197,215
Other perfume products ...	25,474	51,787	23,063	42,717
Jasmin essence ...	1,309	173,292	1,394	208,370
Rose ...	702	50,226	639	62,126
Tuberose ...	69	9,832	118	13,346
Other floral essences ...	1,436	28,074	3,917	44,828
	253,328	1,041,035	229,043	815,428
Floral waters ...	Gallons 8,051	Dollars 5,432	Gallons 9,856	Dollars 4,804
		1,046,467		820,232

U.S.A. IMPORTS OF PAPAIN.—Arrivals during the past four years were as follows:—

Origin	1934		1935		1936		1937	
	Lb.	\$	Lb.	\$	Lb.	\$	Lb.	\$
United Kingdom ...	54	74	53	119	63	82	78	98
Canada ...	4	8	—	—	—	—	4	8
Ceylon ...	53	107	63	95	139	145	87	90
Siam ...	—	—	*	*	*	*	4	2
New Zealand ...	—	—	—	—	1	1	—	—
British India ...	—	—	—	—	—	—	3	2
British Malaya ...	—	—	—	—	—	—	1	1
British East Africa ...	—	—	—	—	—	—	2	3
	111	189	116	215	204	229	180	205

* Less than 1,000.

Thousands, in weight and value, omitted.

U.S.A. MENTHOL IMPORTS.—Imports, chiefly from Japan during the years 1908 to 1937, were as follows. In 1936 arrivals from Japan totalled 278,000 lb. and from China, 11,000 lb.

Year	Lb.	Value	Year	Lb.	Value	Year	Lb.	Value
		\$			\$			\$
1908	20,000	33,000	1918	151,000	412,000	1928	254,000	924,000
1909	24,000	37,000	1919	296,000	1,583,000	1929	296,000	1,232,000
1910	23,000	43,000	1920	206,000	1,565,000	1930	308,000	1,017,000
1911	51,000	123,000	1921	165,000	916,000	1931	326,000	878,000
1912	52,000	201,000	1922	182,000	881,000	1932	351,000	734,000
1913	62,000	351,000	1923	197,000	1,467,000	1933	304,000	629,000
1914	116,000	347,000	1924	193,000	1,744,000	1934	425,000	848,000
1915	111,000	237,000	1925	294,000	2,599,000	1935	282,000	654,000
1916	145,000	301,000	1926	459,000	2,842,000	1936	342,000	831,000
1917	173,000	398,000	1927	369,000	1,332,000	1937	459,000	1,087,000

ANGOLA CULTIVATING PYRETHRUM.—The Portuguese Colonial Government has recently carried out experiments in Angola with the cultivation of pyrethrum at the Agricultural Station in Cuima, Benguela. These experiments are reported to have been successful, and the Government now plans to encourage the cultivation of pyrethrum on a commercial scale. It is hoped in Lisbon that the new crop will prove to be of considerable economic value to the colony.

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Pensions for Chemists

SIR,—Your correspondent, "One-Man Chemist" (*C. & D.*, April 9, p. 437), asks if the idea of a scheme for pensions for pharmacists is workable? I sincerely hope that it is, and I should like to inform him that the Manchester and Salford Branch of the Pharmaceutical Society has a resolution accepted for discussion at Edinburgh on this subject. When the time comes we should like to have his support.

Yours faithfully,

J. H. FRANKLIN,
Chairman, Manchester and Salford Branch
of the Society.

Advertising of Pharmacy

SIR,—Your correspondent "Founder" (*C. & D.*, April 9, p. 437) quite misses the point. I did not advocate the national advertising of specific pharmaceutical products, but of pharmacy and pharmacists. The prime need of the moment is for the public to be educated into the knowledge that pharmacy is a scientific calling and that the place to obtain medicinal products and everything appertaining to health and hygiene is the establishment registered as a pharmacy and run by qualified persons. For that purpose a combined scheme such as I have suggested would be the most effective, and the question of the sale of specific products could be left, as now, to the personality of the individual pharmacist. The main thing at the moment is to impress the general public with the fact that the only people who by training, education and legal qualification are entitled to dispense medicines and to sell medicinal products are members of the Pharmaceutical Society functioning in registered premises. The situation of these premises could be indicated in each town or city, and such publicity would hamper in some measure the present trek to the grocer, the ironmonger and the bazaar. To use a popular *cliché*, we want the public, most of all, to be "pharmacy-minded." Once in the pharmacy, the individual with his, or her, personality does the rest.

Yours faithfully,

WILLIAM CHALMERS

Surbiton.

Manufacturers' Profits on Galenicals

SIR,—Your correspondent (*C. & D.*, April 2, p. 407) on the above subject hits the nail on the head when he implies that there is little money in drugs to-day—"on account of the competition between the manufacturers themselves." Whether more drugs are sold to-day than before the coming of N.H.I. is a moot point. One thing is certain: the number of orders for drugs is rapidly increasing, and where a chemist once bought a winchester quart he now buys a pound, and where he bought a pound he now buys four ounces. This multiplicity of orders, with all that it implies in the way of telephone and post charges on the part of the retailer and the increased overheads on the part of the wholesaler, does neither any good and reduces the profit margins of both.

Yours truly,

MANUFACTURER (4/4).

Chemists' Advertising

SIR,—To many pharmacists, especially of the younger school, who do not readily abandon hope of pharmacy for the pharmacist, your reference in your issue of March 26 (p. 371) to the type of advertising adopted by a group of chain stores is greatly appreciated. I understand that the Tees-side Branch of the Pharmaceutical Society some time ago made representation to the Society regarding the unfairness of this advertising, especially in its relation to Insurance dispensing, which is a national service entrusted to the pharmacist by virtue of his statutory qualification. This resolution was not published in the report of the Council meeting, and had it not been for the public-spirited action of the *C. & D.*, the usual "hush-hush" policy of the Society would have denied publicity to what undoubtedly is a matter which almost shouts for some action to be taken by the Society. . . . Where in this matter are the new councillors of whom we expected so much? A recent decision of the Council to do nothing in connexion with the purport of the Tees-side resolution may cost more than one of them his seat in the Council; others concerned with the decision will probably in time meet with a similar fate. It

must surely be evident to all that, if this kind of advertising is persisted in, some action must eventually be taken, if only to protect the poorer and less educated of the community, whose safeguard, under an approved national dispensing service, is the qualification of the pharmacist. Any undermining of this principle or guarantee should not be tolerated by our examining protective registration body; but as it would seem they—the Council—are a willing party to evading their responsibilities in this direction, then it must become a matter of importance to our legislative. An election is at hand; members of Council seeking re-election might well be confronted with their recent decision in this direction.—Thanking you,

WYLFA (11/4).

Drug Equivalents

SIR,—The case reported from Stirling (*C. & D.*, April 2, p. 391), in which a chemist received a prescription for a certain drug "or its equivalent," brings into prominence the necessity for having a universally recognised name for any particular drug. At present, when a new synthetic drug is introduced, several firms commence to manufacture it, and each adopts a title of his own. Representatives of these firms call on doctors and leave samples and literature, and before long the local chemist may have to get in a stock from each firm, and may even have difficulty in finding out who are the makers of a particular variety.—Yours faithfully,

SYNTHESISE (4/4).

Suggested Limitation of Pharmacies

SIR,—I see in the report of a speech from Newport (*C. & D.*, April 2, p. 385) that there is approximately one pharmacy per 2,000 population, and that there should be limitation of pharmacies to something like one per 6,000 if we want the business to be purely pharmaceutical. Such limitation means there would be only one pharmacy where there are now three, with the result that there would be two more pharmacists seeking work as assistants, unless there was also some limitation to the number of qualified persons. The only way pharmacies can carry on at the rate of one per 2,000 population is by the sale of sidelines, and if the business is to be purely pharmaceutical then all toilet and fancy goods must be eliminated. Is it expected that the pharmaceutical trade of 6,000 prospective customers will be sufficient to employ the same three pharmacists in one shop, who now manage to exist on a mixed trade as separate proprietors? Once introduced limitation it will have to be applied to all the factors governing the conditions of pharmacy, and to be so arranged that every pharmacist can earn a reasonable living by his professional work.—Yours faithfully,

CUI BONO (9/4).

Council Candidates' Creed

SIR,—Members of the Plymouth and District Branch of the Pharmaceutical Society seem to think a declaration of policy is required from Council candidates in addition to the usual electioneering address, for in their letter headed "Questions to Council Candidates" (*C. & D.*, April 9, p. 437) they state five main principles on which they ask for an assurance. The first and third deal with trading matters, really retail trade, and when in the first the candidate is asked to state that he is not engaged in any trade or calling which is in competition with pharmacy, or that he has no interest in a drug store or any trading concern which sells medicines other than a pharmacy, surely it is spreading a very wide net. In effect such a condition could rule out anybody who was not solely engaged in a retail pharmacy or in a firm supplying any traders other than pharmacists. Then in the third clause he is asked to support the Chemists' Friends movement—here again if he is a manufacturer or wholesaler, or in any way connected with that side of the trade, he must be assured that the goods put out by his firm are on the C.F. list; if they are not, he could not affirm legitimately that he was supporting the movement. Items two and five fall more into the class of generalities, and could be endorsed without any hesitation by all candidates, because the ways and means by which they should carry out the pledge are necessarily nebulous. On the whole, I do not think a *questionnaire* gets us much further than by leaving the candidate to issue his own statement of policy.—Yours faithfully,

QUESTOR (9/4).

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

W. A. S. (30/3).—EYELASH-GROWING CREAM.—This can be made as follows:—

Yellow soft paraffin (pale)	..	..	1 oz.
Peach-kernel oil	..	..	2 dr.
Hard paraffin	..	..	1½ dr.

C. T. (4/11).—SAUSAGE FLAVOURINGS.—The following formulas for sausage flavourings are given in Pharmaceutical Formulas, Vol. II:—

(1) Powdered celery seed	..	..	3ij.
Powdered mace	..	..	3j.
Powdered nutmeg	..	..	5j.
Powdered black pepper	..	..	3ij.
Powdered common salt	..	..	3ij.
Ground rice	..	..	3vij.
(2) Powdered capsicum	..	..	3j.
Powdered cummin	..	..	3j.
Powdered cassia	..	..	3j.
Powdered nutmeg	..	..	3ij.
Powdered pimento	..	..	3vij.
Powdered black pepper	..	..	3vij.
Table salt	..	..	3vij.

S. S. P. (6/4).—DIGITALIS CRYSTALLISÉE.—There is no standard of activity in this country for digitalis crystallisée, but commercial samples have been examined in comparison with standard preparations for powdered digitalis B.P. by biological methods, and their activity has been found to vary from 900 to 1,200 units per gm. One pure crystalline sample of the substance has been found to have a potency of 1,500 units per gm.

C. S. S. (11/4).—LIQUID POWDER.—The following formulas for coloured liquid powder will probably suit your requirements:—

(1) Bismuth subcarbonate, in fine powder	100 gm.
Talc, in fine powder	 200 gm.
Rose water	 to 1,000 c.c.

Triturate the dry ingredients together, then gradually add sufficient rose water to make the product measure 1,000 c.c.

(2) Levigated zinc oxide	 54 gm.
Bismuth subchloride	 54 gm.
Glycerin	 67 c.c.
Perfume to suit	
Distilled water	 to 1,000 c.c.

Triturate the zinc oxide and bismuth subchloride together until intimately mixed, then incorporate them with the glycerin and water.

We suggest that you experiment with varying amounts of the following colourings until the required shade is produced: Armenian bole, burnt sienna, burnt umber or a water soluble brown dye.

H. R. C. (28/3).—FLAVOURINGS FOR RAW TOBACCO:—

(1) Valerian	 ½ oz.
Cascarilla	 1 oz.
Tonka bean	 1 oz.
Orris root	 ½ oz.
Alcohol (50 per cent.)	 20 oz.

Macerate for a week and filter.

(2) Valerianic acid	 10ml
Heliotropine	 20 gr.
Essence of musk	 2 oz.
Essence of apricot	 6 oz.
Rum	 12 oz.
(3) Tincture of valerian	 2 dr.
Tincture of tonka	 6 dr.
Coumarin	 15 gr.
Rum	 2½ oz.
Violet extract	 to 10 oz.

J. W. C. (8/4).—WOOD OIL.—Chinese wood oil (*Aleurites Montana*), known in the trade as "Hankow wood oil," is the universal "drier" for paints and varnishes. Japanese wood oil (*A. Cordata*) is a similar oil of inferior quality. The product you refer to is, it seems, *Dipterocarpus crinitus* (oleoresin). The tree yielding the oleoresin grows abundantly at Selangor, Straits Settlements. The oleoresin known as "wood oil" or "Kruing sap" is an opaque, very viscous greyish-white liquid, with an aromatic but slightly sour odour. It yields only 19.5 per cent. of a yellow essential oil to steam distillation similar in characters and reactions to that obtained from gurjun balsam, which generally gives over 50 per cent. of essential oil. In recent years, several substitutes of Hankow wood oil have been put on the market, none of which has been entirely satisfactory.

F. R. (10/3).—The following books on cosmetics will probably be suitable for your purpose:—"Pharmaceutical Formulas," Vol. II (C. & D. Office), 15s. 6d.; Poucher's "Perfumes and Soaps," Vol. II, Chapman & Hall, 25s., "Secrets of Charm," G. P. Putnam Sons, 10s. 6d.

J. H. (10/3).—SETTING LOTION.—The following are suitable formulas for hair curling solutions of the setting lotion type:—

Potassium carbonate	.. 3j.	Sodium carbonate	.. 80 gr.
Solution of ammonia	.. 3ss.	Solution of ammonia	0.880 40 m.
Glycerin	.. 3ij.	Mucilage of acacia	.. 3iv.
Alcohol	.. 3vij.	Oil of cloves	.. gtt.j.
Rose water	.. 3vij.	Rose water	.. 3x.

Formulas for toilet oatmeal are as follows:—

Powdered orris	.. 3j.	Powdered orris	.. 3j.
Oil of neroli	.. m.ij.	Ionone	.. m.x.
Oil of bergamot	.. m.v.		
Triturate well and add:—		Triturate for five minutes	
Finely sifted oatmeal	.. 3vij.	then add:—	
Mix and sift three times.		Oatmeal (sifted free from	
		flour)	.. 3xij.

J. J. M. (15/3).—CLEANING A MARBLE TOMBSTONE.—The following procedure will probably be suitable for the removal of fungoid growths on the marble tombstone. A solution of caustic soda (6 oz. to a gallon) is applied to the area affected by means of a cheap scrubbing brush provided with a handle. After the solution has acted for ten minutes, wash the marble with water, rubbing if necessary with very fine sand to remove the growth. Finish the operation with plenty of clean water. The following solvents might be tried for the grease stain:—Carbon tetrachloride, chloroform, benzene, petroleum ether.

J. S. (2/3).—HYDRAULIC BRAKE FLUID.—There are numerous brands of brake fluid on the market, but most of them fall within the following classes: castor oil-ethyl alcohol; castor oil-methyl alcohol-glycol; castor oil-diacetone; castor oil-cellosolve (ethylene glycol monoethyl ether), with and without glycerol and glycols; castor oil-butyl alcohol-glycol (in at least one such product the vehicle for the castor oil seems to be a mixture of butyl and amyl alcohols, probably by-products of methanol synthesis); special processed fluids having unusual properties and complex secret composition; glycerol-ethyl alcohol mixtures; glucose-ethyl alcohol mixtures; glucose-ethyl alcohol-water mixtures. For many years the castor oil-ethyl alcohol brake fluid was practically the only one used. In the last five or six years, however, with the great increase in the number of automobiles equipped with hydraulic brakes, the shortcoming of this fluid became evident and a real search for high-boiling non-corrosive solvents for castor oil began. Castor oil is the only commercially available and perhaps the only oil, whether animal, vegetable, marine or mineral, that is suitable for use as a lubricant in, or to impart "body" to, brake fluids. All other fatty or mineral oils cause rubber to swell and soften; many of them have this property to an excessive extent.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," April 14, 1888

Trade and Taxation

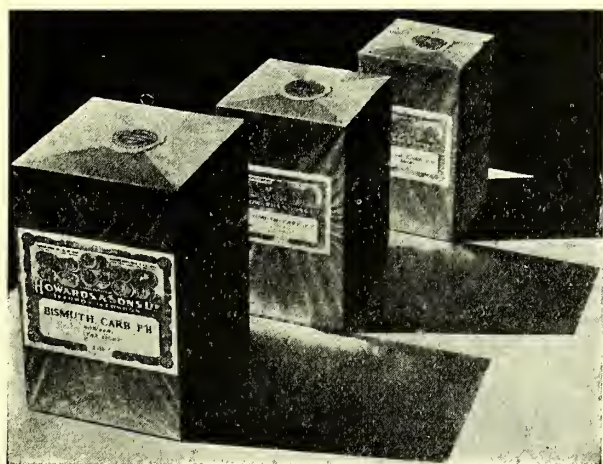
Of the changes in taxation proposed in this year's Budget, there are few which affect the trading classes especially, and none which concern chemists or druggists exclusively. The penny off the income tax and the anticipated reduction of rates are boons which cannot fail to be welcome wherever they are paid; but they are boons as much to the classes who derive their income from settled property as to those who depend for theirs on their labour from year to year. The 6d. stamp on brokers' contract notes is not yet applied to other than Stock Exchange contracts; and, so far as it hits the speculators, this tax cannot be objected to. If the movement in favour of extending and systematising speculation in the produce markets should prove a success, there is not much doubt that this stamp will have to be adopted by the brokers of Mincing Lane as well as by those of Capel Court.

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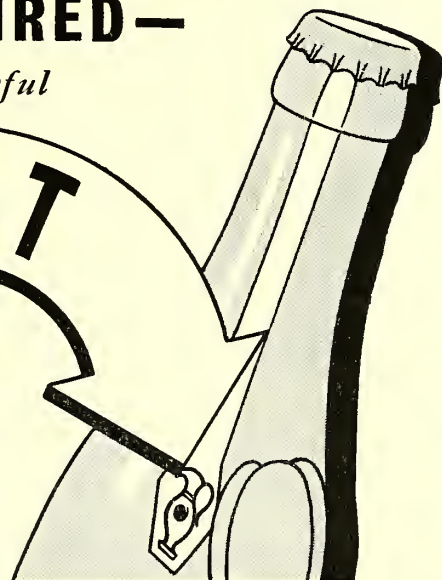
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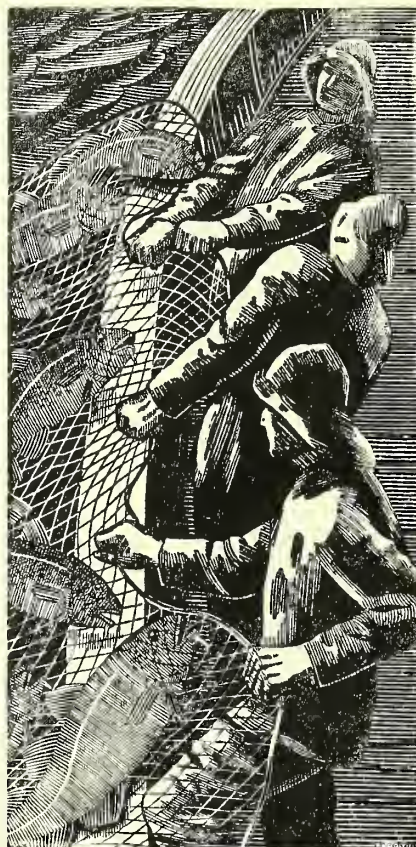
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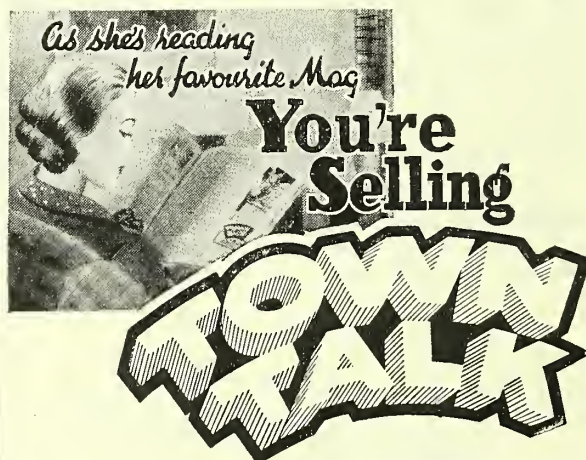
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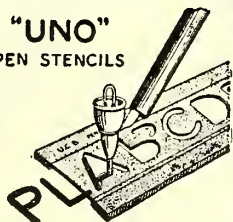
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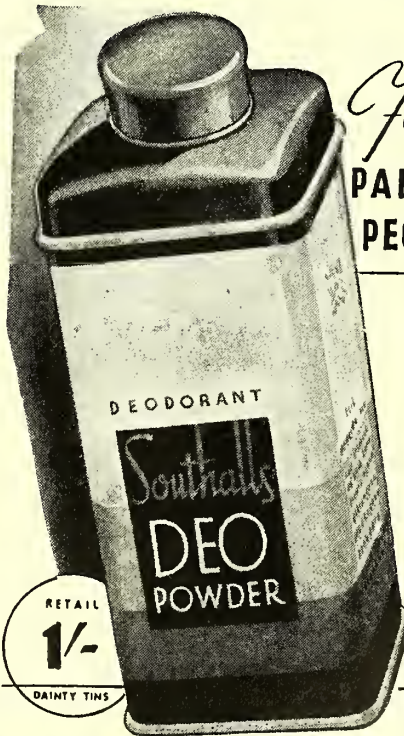
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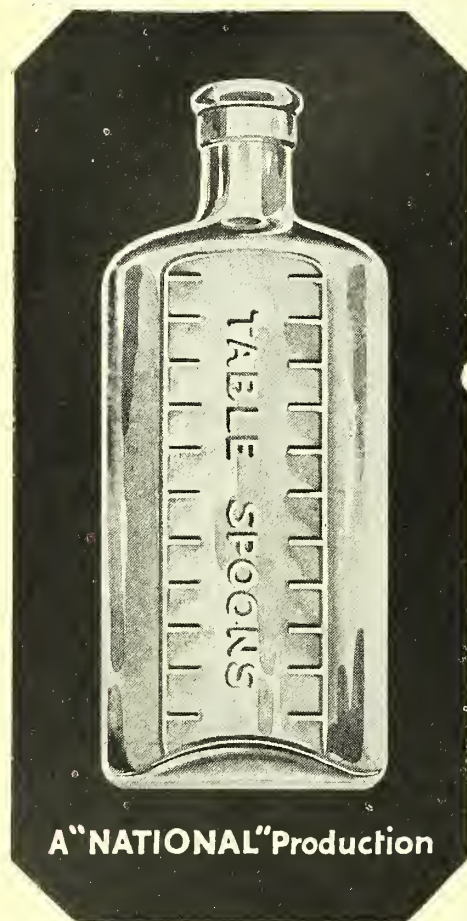


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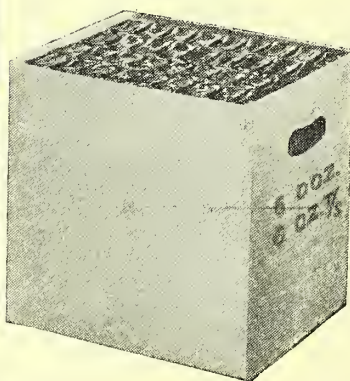
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13.—EAST HAM (NEAR).—Middle- and Working-class Cash Retail Business with excellent Panel; old established; takings last year £2,025; stock worth £500; comfortable living accommodation; garage; rent £80, or property can be purchased; inclusive purchase price required for the business £950.

14.—BRISTOL.—Middle-class Retail Business for sale owing to vendor buying another concern; takings this year about £1,600; good profits; living accommodation; with bathroom; rent £68 per annum; inclusive purchase price £950; increasing turnover.

15.—BATH.—DEATH VACANCY.—Good class Business for sale; takings average about £45 per week; old established; reasonable overheads; purchase price about £1,500; stock and fixtures worth £800; early sale desired.

16.—UPMINSTER.—General Cash Retail Business with Optical connexion; turnover about £2,300 per annum; net profit £500 per annum; lock-up shop; long lease at reasonable rental; inclusive purchase price £1,400-£1,500, of which sum £500 is in respect of the lease and goodwill.

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20.—HASTINGS.—Middle-class Business; net profit over £400 per annum; living accommodation; long lease; price £1,000.

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FLOR & BUCKLEY,
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APPOINTMENTS

CITY AND COUNTY OF BRISTOL DEPARTMENT OF PUBLIC HEALTH

APPPLICATIONS are invited for the post of Dispenser,
at the Central Health Clinic, at a commencing
salary of £215 per annum, rising by annual increments
of £15 to a maximum of £245 per annum.

Applicants must be members of the Pharmaceutical
Society. The salary will be subject to a percentage
deduction in accordance with the provisions of the
Local Government and Other Officers' Superannuation
Act, 1922, for which purpose the selected candidate
must undergo a medical examination. Forms of applica-
tion may be obtained from the Medical Officer of
Health, Public Health Department, 40 Prince Street,
Bristol 1, and must be returned, together with copies
of not more than three recent testimonials, not later
than April 22, 1938.

KENT COUNTY COUNCIL. PUBLIC ASSISTANCE DEPARTMENT. DISPENSER.

THE County Council invites applications for the
appointment of Dispenser at the County Hospital
Farnborough.

Salary £260 a year, rising by £10 a year to £300
a year.

Candidates must be Qualified Pharmacists or Phar-
maceutical Chemists, and must have had previous
experience in Hospital Pharmacy.

The Local Government and other Officers' Super-
annuation Act, 1922, will be applicable to the appoint-
ment, and the successful candidate will be required to
pass a medical examination.

Application to be made on forms obtainable from the
Public Assistance Officer, Tonbridge Road, Maidstone,
to be returned to him by not later than May 9, 1938.

W. L. PLATTS,
Clerk of the County Council.

Sessions House,
Maidstone.
April 12, 1938.

NATIONAL PHARMACEUTICAL UNION

REQUIRE a Local Organisation Officer about 35 years
of age; must have experience as Proprietor
Chemist and have taken an active part in local organ-
isation, supported the C.F. Movement and be familiar
with N.H.I. local administration. Applicant must have
enthusiasm, initiative and personality. Commencing
salary £400 per year, with superannuation. Canvass-
ing the Executive or Officers of the N.P.U. will dis-
qualify. Applications in writing only, giving full
particulars, to be sent to the Secretary, N.P.U.,
4/5 Queen Square, W.C.1, before May 7, 1938.
Envelopes to be marked "Local Organisation Officer."

SITUATIONS OPEN

RETAIL (HOME)

6s. for 40 words or less; 6d. for every additional 10 words
or less, prepaid. (Box No., 1s. extra.)

C.O. DURHAM.—Lady Chemist required; good Dispensing experi-
ence; able to Dress Windows; permanent appointment. Write,
giving particulars, to 324/789, Office of this Paper.

DEVON.—Qualified; permanent; either sex; state salary and
usual particulars. 149/7, Office of this Paper.

ESSEX.—Manager, Qualified, for branch at High Street, Witham;
modern shop; living accommodation; N.H.I., Photography;
must be a good Salesman, Window-dresser and previous experience
as Manager. Apply, stating age, height, experience, salary re-
quired, references (photo if possible), to Bellamy's Pharmacies,
Ltd., Tindal Square, Chelmsford.

HAMPSHIRE.—Capable Qualified Assistant, either sex; country
branch; must be quick and accurate Dispenser, N.H.I.; good
Window-dresser and bright Counter manner; knowledge of Photo-
graphy preferred; full details in first letter; if no reply within
three days application respectfully declined. 149/5, Office of this
Paper.

HEREFORDSHIRE.—Qualified Assistant (male), required imme-
diately; permanency. Please state age, height, experience
and salary required in first letter. Corn Square Pharmacy,
Leominster.

ISLE OF WIGHT.—Improver required immediately; good Counter
and Dispensing experience. Write, giving details, to 324/790,
Office of this Paper.

LONDON COUNTY COUNCIL.—Pharmacist (man or woman) (age
under 40) required at Claybury Hospital (for nervous and
mental disorders), Woodford Bridge, Essex, must possess Pharma-
ceutical Society's qualification; salary £270, rising to £405, a
year; pensionable. For application form, returnable by April 29,
send stamped addressed foolscap envelope to Chief Officer (B/A),
Mental Hospitals Department, Shell-Mex House, Strand, W.C.2.
Marriage terminates service in case of women. Canvassing dis-
qualifies.

LONDON, N.—Lady Assistant, Unqualified, required soon for at
least 3 months; must be a good and reliable Dispenser and
Saleswoman. Apply, stating age, height experience and salary
required, to 149/17, Office of this Paper.

LONDON, S.W.—Manager (Lady or Gentleman), required for
May 2; N.H.I. and Photography; outdoors. Apply, Mr.
Framingham, Messrs. John Keall, Ltd., 5 Putney Hill, S.W.15.

MANCHESTER DISTRICT.—Young Unqualified Assistants re-
quired; able Dispensers, good Counter manner. Write, giving
full particulars, to 324/791, Office of this Paper.

N.E. ENGLAND.—Required shortly, Qualified (over 50), mar-
ried, sociable, to manage old-established village business,
Veterinary, Photo, N.H.I., etc.; living accommodation provided
free; low salary; age and all particulars in first letter; perma-
nency to right man. 148/8, Office of this Paper.

A.A.A.—YOUNG Assistant of good address, male or female,
with all-round experience; no Sunday duty. Apply
L. Garfield, M.P.S., 5 North Parade, Mollison Way, Edgware
(station, Burnt Oak), in writing, or 'phone Edg. 4545.

A SMART young Qualified Assistant required immediately for
busy London Pharmacy, with some Counter experience; pro-
gressive, permanent position for enthusiastic worker. Write, giving
details, age, etc., and commencing salary required, M.B., Victoria
Pharmacy, Ltd., 7 Wilton Road, London, S.W.1.

ASSISTANT.—Gentleman of good address and education, accus-
tomed high-class business; applicant must possess sound
knowledge Dispensing and Salesmanship; permanent position; two
weeks' holiday within six months; interview essential. State
height, age, salary and full experience, Leonard Matthews, 25 High
Street, Wanstead, Essex.

CAPABLE Lady Assistant required in Birmingham; an all-round
experience is necessary, with the ability to dress Windows
and handle Toilets; if possible send a photograph. Bannister &
Thalcher, Ltd., 132 Caldmore Road, Walsall.

LADY Dispenser-Secretary wanted, after Easter, for country
practice providing good experience; salary £65 year; live
in, all found; pleasant surgery separate from house. Reply in
writing, stating age, education, experience, etc., Dr. Crossley,
Purton, near Swindon.

LOCUM, May 16 to 29, preferably young. Apply, stating terms,
references, H. Green, 62A Plumstead Common Road, Plum-
stead, S.E.18.

PHARMACY.

UNQUALIFIED Male Assistant required as Locum.
Unqualified Female Assistant as holiday relief.
Widows and single persons only considered. Apply in
writing, stating age and experience, to the Staff
Manager, Royal Arsenal Co-operative Society, Ltd.,
113 Powis Street, Woolwich, S.E.18. Endorse envelope
"Pharmacy."

NOTE.—Canvassing of members of the General Com-
mittee or Officials will disqualify.

QUALIFIED Assistant (about 28); first-class Dispensing and
general experience essential; S.E. Coast; May 9; send photo
and references. 148/6, Office of this Paper.

QUALIFIED Assistant wanted immediately, capable of taking
charge, young (23-27); good appearance; energetic; give full
particulars, references and recent photograph; permanency; no
Sunday duty; state salary required; North Bucks. Apply 148/4,
Office of this Paper.

QUALIFIED Locum required; July 4 to 16. Apply by letter,
enclosing stamped addressed envelope, stating full parti-
culars, to Harrison, 464 Holderness Road, Hull.

QUALIFIED, to manage very small business during season, May-
September; residential district of East Coast resort; succession
entertained at gift price; suit Chemist desiring semi-retired life in
healthy situation; or younger Qualified prepared to carry on for
development. Please state age and other particulars, 149/28, Office
of this Paper.

SMART, capable young lady required, chiefly for Counter, Toilets, etc.; good knowledge of Stock-keeping, Book-keeping an asset; permanency. Apply, giving particulars, age, salary required, photo, T. G. Stewart, Chemist, Bracknell.

TIMOTHY WHITES & TAYLORS require Unqualified Assistants in London and South of England as seasonal Assistants; view permanencies. Apply, giving full particulars, to Retail Staff Manager, 70 Vauxhall Bridge Road, London, S.W.1.

UNQUALIFIED Junior Assistant wanted for main road Edgware Pharmacy; exceptional prospects. Apply 142/2, Office of this Paper.

WANTED, June, permanent, Qualified lady or elderly gentleman; light duties, suit semi-retired; healthy Sussex Coast town; particulars first instance. 149/9, Office of this Paper.

WHOLESALE

GLAXO LABORATORIES, LTD. MEDICAL REPRESENTATIVE

AN additional Representative is required and applications are invited for this progressive position; it can only be filled by a male Qualified Pharmacist, and calls for intelligence, industry and enthusiasm, as well as the ability to sell to professional and trade customers; previous representative experience is not necessary. Candidates, who must be between the ages of 25 and 30, and preferably single, should submit by letter only, full details of their education and business career, as well as the usual personal information, including height, to H. S., c/o The Sales Manager, Glaxo Laboratories, Ltd., Greenford, Middlesex. A photograph should be enclosed if possible, but testimonials must not be sent in the first instance.

REPRESENTATIVES required, all districts, already calling upon Doctors, Hospitals, Clinics, etc., to sell appliance with entirely new principle, only appliance of its kind on the British market; good commission offered. Apply to "Genex," 145/7, Office of this Paper.

REPRESENTATIVES required by well-known Hot Water Bottle Manufacturers to cover (1) all Welsh Counties and Hereford, Worcester, Warwick, Stafford, Derby, Cheshire, and (2) all Scotland; applicants must have connexions amongst the trade and be able to furnish excellent references. Write 324/792, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN

ALERT Qualified Assistant (aged 22-24), wanted for healthy British Colony; must have Optical and Photographic knowledge, also working knowledge of Cine Kodak; 4 years' agreement; passage paid out and home; medical examination required; salary, first year £420, second and third years £455, and fourth year £490, subject to exchange rates; sailing date end of April. Applicants must apply by letter only. Photographs and testimonials are not required until asked for. Letters to be sent to the Secretary, Dakin Brothers, Ltd., 46 Southwark Street, S.E.1.

UNQUALIFIED Assistant (30-40), for Dispensing and Retail; well educated; Gentle; easy and pleasant work; first vacancy in 10 years; grand climate; salary £240-£300. J. M. Simpson, Box 747, Port Elizabeth, South Africa.

SITUATIONS WANTED

RETAIL (HOME)

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.A.A.—M.P.S., F.N.A.O., F.I.O., M.I.C.O., O.B.A.C. and J.C.Q.O. (27), requires permanent responsible position showing fair salary and prospects; experienced West End, Suburban and Provincial Pharmacy and Optics; keen, energetic, up to date, used to controlling staff; careful Buyer, tactful Salesman, accurate Dispenser, fullest particulars, interview. "Chemist-Optician," 182 Benhurst Avenue, Elm Park, Romford, Essex.

A.A.A.A.—MANAGER. Qualified (35), desires post on all-round experience Dispensing, Counter, Vet., etc.; free one month. 148/2 Office of this Paper.

ASSISTANT, Unqualified (25); locum or permanent; 8 years' all-round experience Dispensing, Counter, Vet., etc.; free one month. 148/2 Office of this Paper.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.

Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photoline. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.

S. E. HACKETT, 23 July Road, Liverpool

ASSISTANT (27), Qualified, requires temporary post for about six weeks; free April 25; London or seaside preferred. P.C.B. 279/37, Office of this Paper.

BIRMINGHAM area, Peterborough district, North Wales or London preferred; disengaged; locum work taken. Hanley, 180 Lzells Road, Handsworth, Birmingham.

CAPABLE Assistant (36), Unqualified, married, seeks responsible permanency; experienced Dispensing and all branches; creative ability and initiative; free; South-East Coast preferred. 149/13, Office of this Paper.

CHEMIST, locum, experienced; recommended; disengaged May 30-June 4 and June 20-July 16; London or provinces. Chemist, 24 Hillside Crescent, South Harrow.

EXPERIENCED Unqualified (39), over 20 years' good-class Family Retail and Dispensing; seeks permanency or seasonal post; 15 years last post. "Eymys," 2 Holme View, Ilkley, Yorks.

LADY Assistant, good Toilet and Drug Counter experience, used to Window-dressing and Display work, seeks post. Miss M. L. Horrocks, 2 Briarlands Avenue, Sale, Manchester.

LOCUM—Qualified, 12 years' excellent experience; town; country, coast; 5 years managing; free from May 14; distance no object. Write, G. E. Newman, M.P.S., 7 Pinewood Road, Bromley, Kent.

LOCUM work, Birmingham or Midlands; Qualified (40); reliable, experienced; free until May 14; moderate terms. Apply 149/25, Office of this Paper.

LOCUM (40), Qualified; vacant dates in May; Midlands or North-Eastern Counties; 5 guineas weekly, plus single fare. 147/1, Office of this Paper.

PHARMACIST Locum, now booking dates; thoroughly experienced; used to management and sole control. Pharmacist, 23 Old Manor Drive, Isleworth, Middlesex.

PHARMACIST, well recommended, active, requires permanency or locum; any district; moderate salary. 8 Clevedale Road, Combe Down, Bath. Telephone: Combe Down 523.

QUALIFIED Locum (27), Chemist-Optician, M.P.S., F.S.M.C., O.B.A.C.; thoroughly experienced all branches; excellent Salesman, expert Refractionist; booking for season. 149/23, Office of this Paper.

QUALIFIED, Manager or Superintendent; reliable and well recommended; moderate salary; London district. Apply 149/16, Office of this Paper.

QUALIFIED (25), married, requires position as Branch Manager or First Assistant in busy Dispensing business; excellent Dispensing experience; permanency desired. 149/30, Office of this Paper.

QUALIFIED (38), tall, married, with all-round experience, including 12 years' management, seeks permanency as Branch Manager; free April 25. Benson, 97 Keats Way, Greenford, Middlesex.

UNQUALIFIED; disengaged during May; 30 years' experience all branches; London district. Apply 149/20, Office of this Paper.

WELL recommended, experienced Qualified Locum; available May 2-28 inclusive; West Country preferred; terms £6 weekly. Chemist, 12 Chandos Road, Bristol.

WHOLESALE

THIRTY Years' experience, Representative, Propagandist; car; excellent record, health, address; salary and expenses. "Hypocrates," c/o Jackson, Rowan Avenue, Boothville, Northampton.

FOR SALE

(Articles to the value of £5-£50.)

SECOND-HAND Complete Ballmill; mounted strong hench, 7 ft., including 1-h.p. motor, 220 volts, 1,400 r.p.m.; 3 earthenware 3-gall. cylinders, rubber-covered shaftings, pulleys, belting, brackets in best working condition; inspection. H. K. Laboratories, 86 Charlotte Street, W.1.

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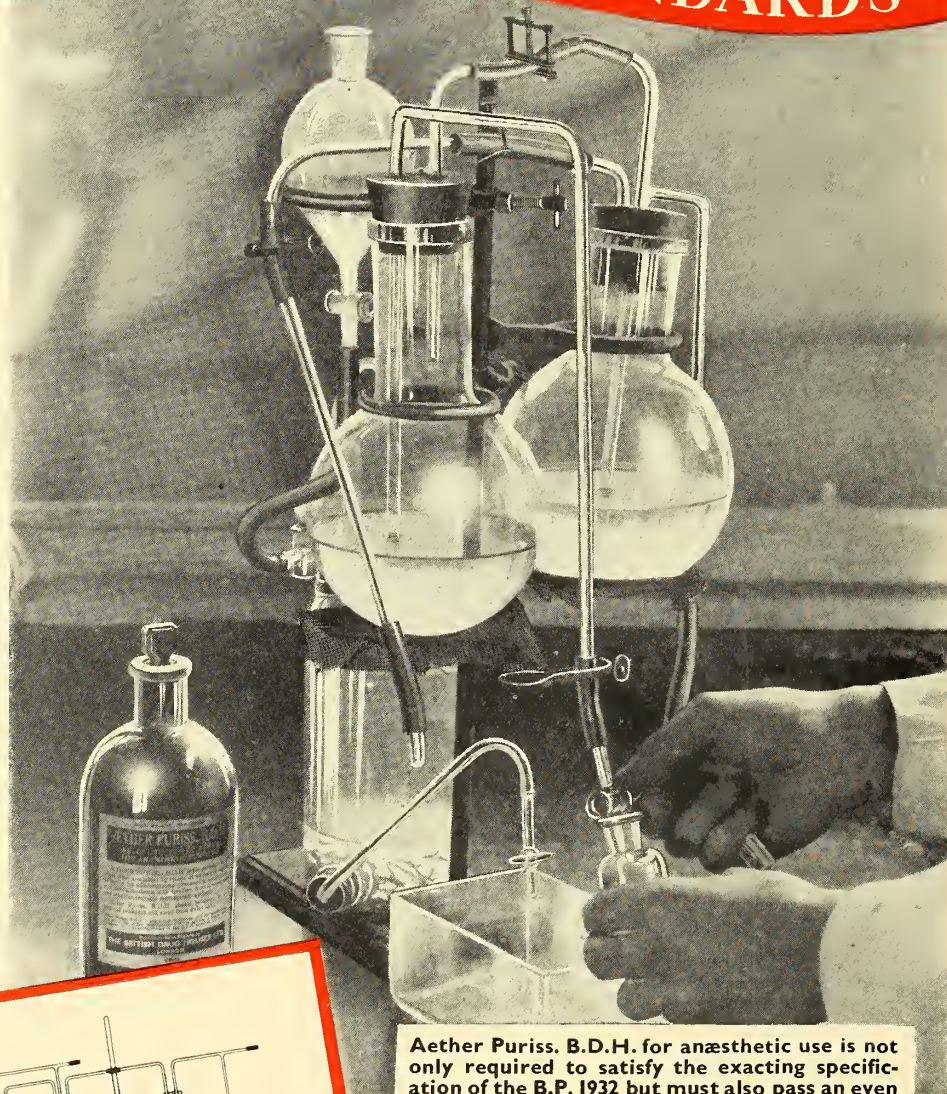
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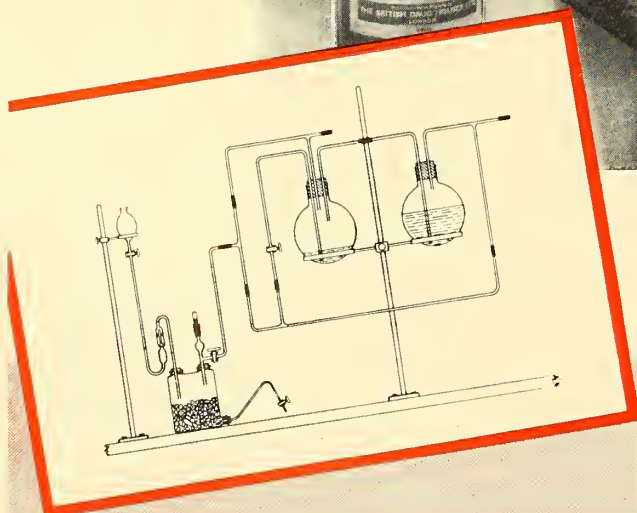
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Aether Puriss. B.D.H. for anaesthetic use is not only required to satisfy the exacting specification of the B.P. 1932 but must also pass an even more rigorous test originated in the B.D.H. Analytical Laboratories which ensures the complete absence of peroxide.

This test employs a solution of ferrous thiocyanate which must be prepared and stored away from air or oxygen in the special apparatus shown. In one of the flasks a solution of ferrous sulphate is made by dissolving iron wire in dilute sulphuric acid and this solution is then transferred to the other flask containing air-free potassium thiocyanate, the operation being conducted in an atmosphere of carbon dioxide. No colour should result on shaking the reagent with the ether under examination: even 1 part of peroxide in 50,000,000 parts of ether can be detected by the production of a red tint.



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